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INDUSTRY
MARCH 1955

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Connecticut INDUSTRY

MANUFACTURERS' ASSOCIATION OF CONNECTICUT, INC.
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L. M. BINGHAM, Editor

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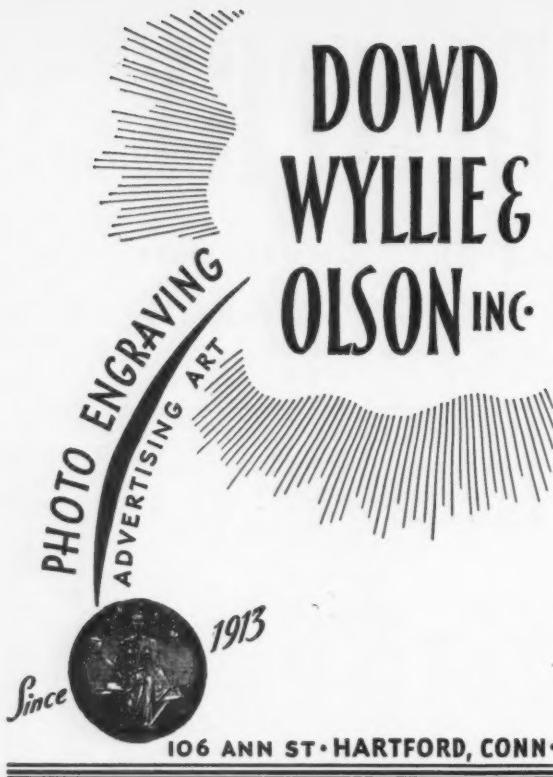
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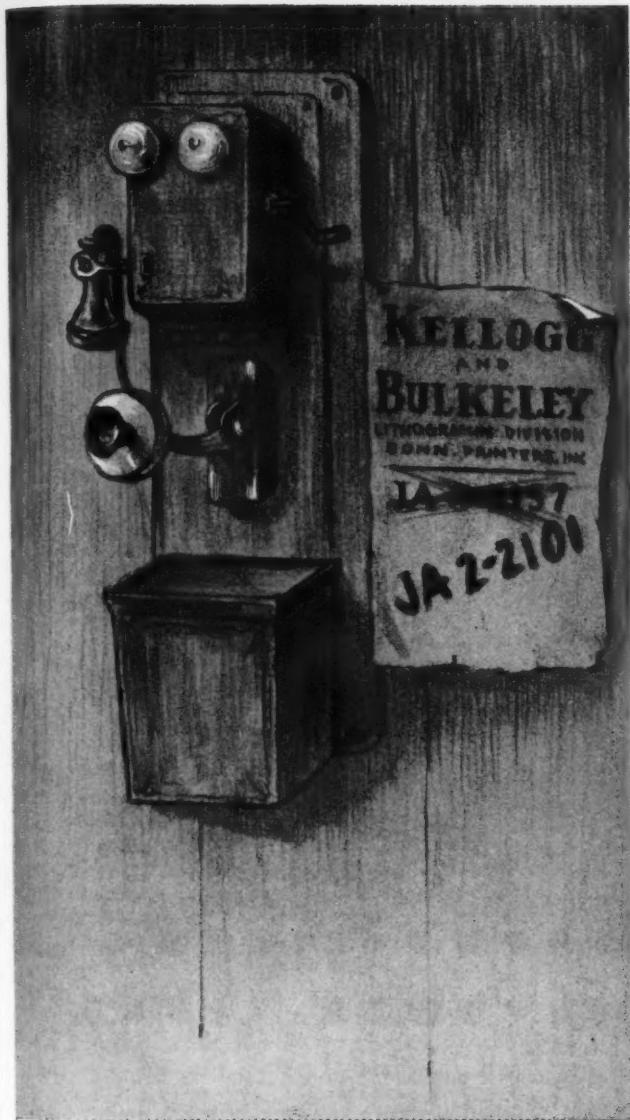
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INDUSTRIAL COMMUNITY RELATIONS

By DeHAVEN ROSS, *Treasurer*

Homelite Corporation, East Port Chester, Conn.

DURING the past twenty-five years there has been a continual change in the attitude of industrial management toward the community. Our modern "enlightened management" has a new conception of the responsibility of an industrial firm towards the community. However, this new thinking must be spread and fostered to have the proper effect.

For example, Greenwich, Connecticut has for years been a highly residential community. Its nearness to New York City, plus the favorable tax laws of the State of Connecticut, has attracted many persons, and the beautiful back country ridges running down to Long Island Sound has quite properly become an area of fine homes and estates. Therefore the town has become highly residential in character and many taxpayers have been definitely opposed to having any industry in the community. The few manufacturing concerns that have grown up in the town have secured sites near the town borders and have largely remained by sufferance.

But with the changing Federal tax laws and the increase in population, Greenwich has undergone a change. The large estates that formerly paid a major proportion of the taxes but that required a minimum of town services are being broken up into smaller plots. The smaller plots require an increasing amount of road maintenance, fire protection, police protection, school facilities, and other town services and result in an ever-increasing tax rate.

A study recently released by the Town Plan Commission of Greenwich reveals that industry gives to the town more tax dollars than are spent by the town on industrial property. In other words, industry produces a tax dollar surplus to the community. More study will be required to accurately appraise the possible advantage but the mere fact that industry pays its way in Greenwich is startling. What is true in Greenwich may be true in other communities. Industry, as such, may lose its condemnation and could be an obvious replacement for the big estates as a means of both producing economic wealth to the community and helping to reduce the tax rate.

To a large extent the progress of this new thinking will rest with industry itself. Profit as such is not only commendable but necessary to the continued existence and growth of the enterprise; but profit as such must not become an obsession to the extent that management and stockholders forget their responsibility to the community. Most stockholders are also citizens and this dual relationship must be understood.

The writer of this month's editorial is a director at large of MAC. After graduation from Harvard University Mr. Ross started his business career with Liberty Electric Co. of Stamford as timekeeper in 1924, going with Homelite Corporation in 1929 two years after Liberty was sold to Acoustic Products Manufacturing Company. Besides his present business activity Mr. Ross serves as vice commodore of the Stamford Yacht Club, treasurer of Stamford-Greenwich Manufacturers Council; director, First Federal Savings and Loan Association of Greenwich; and trustee of Emerson College, Boston.

Much has been said about the acceptability of so-called "light industry". Without any exact definition, it would appear that certain types of industry have become sufficiently desirable to be sought by some communities. If this is so, it may be that towns who have hitherto frowned on industry might better have another look. Connecticut has the highest manufacturing income per capita of any state in the country. Connecticut workers receive a higher average hourly rate than the national average. Its area is small as compared to states in general but its way of life has been largely dependent upon machinery and products. With this history plus the facts as shown in the Town of Greenwich Planning Committee report, industry has a marvelous opportunity to be acceptable provided a genuine desire exists on the part of both property owners and industry to probe the future for their mutual gain. To me it seems that the atmosphere was never more conducive to this idea.

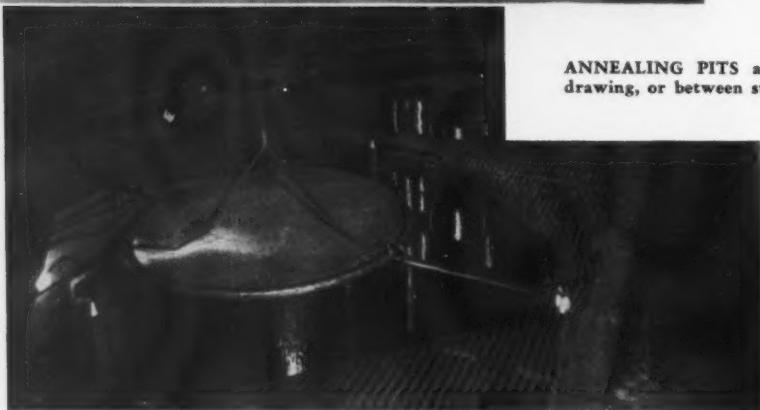
At the turn of the century a manufacturing plant was built chiefly for its functional job and little thought was given to beauty and community acceptability. Seldom was a lawn, shrubs or tree considered as necessary or desirable. Quite naturally laws came into existence which restricted industrial growth. Zoning was created for the economic good. But with the last World War and the tremendous quantity of material which was produced, persons became temporarily employed in factories from other walks of life so that the factory is better understood by people in general than was the case prior to 1941. Also many plants have been constructed where lawns and parking areas have provided space and beauty. Many factories are as beautiful as public buildings. Industry need no longer be the blight which was considered necessary many years ago.

The purpose of this article is to call to the attention of thinking persons the changes which have taken place, with the hope that both industry and the community may better understand their mutual problem, and that a genuine desire may be awakened to appreciate what industry can do to improve community life while reducing individual tax rates. Progress along this line will result to the common good.

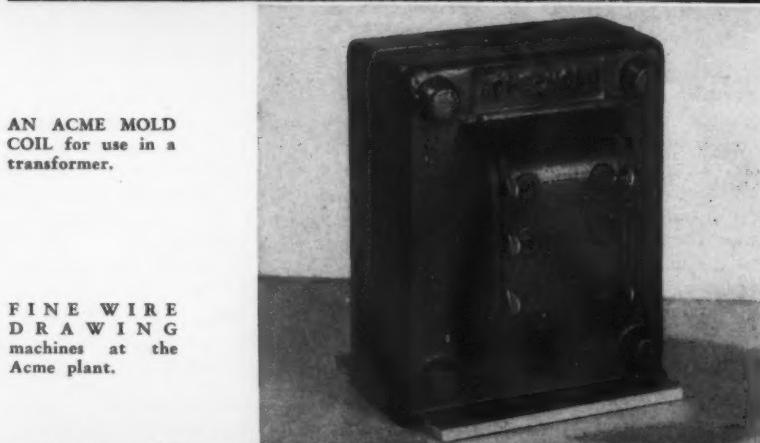
In certain sections of our country, attractive inducements are made to entice industry to settle in their communities. Possibly not everyone appreciates that this inducement can go so far as to give the company a free site, a paved road leading to the plant and extend water and sewer lines at the community's expense. The time to cultivate and understand the needs of a growing company is while it is still located in Connecticut, not after the management has made preparations to move to localities where the above inducements are offered. Our local citizens should understand and appreciate the seriousness of this problem.



SPOOLS of Acme magnet wire are shown on the left. Above is a typical electrical coil winding.



ANNEALING PITS and drum for annealing copper wire after drawing, or between steps in drawing.



AN ACME MOLD COIL for use in a transformer.

FINE WIRE DRAWING machines at the Acme plant.



FIFTY years ago, in 1904—the year The Acme Wire Company was organized—electricity was a little-understood and little-used giant. It was pretty much of a mystery. Life seemed simple in those days by comparison. A bicycle was something of a luxury. There was no television or radar. Automobiles were rare and an uncertain curiosity.

Those were the days of taffy-pulls and of high buttoned shoes. Bathtubs were largely an unrealized dream. Water for the Saturday night bath came from the rain barrel. Four to six dollars a week was pretty good pay for six long days of work; however, things were cheaper too. Eggs were only ten or twelve cents a dozen. You could get a good restaurant dinner for twenty cents. Strawberries were a nickel a quart. Haircuts were only fifteen cents.

Those were the days when our present great electrical industry was in its infancy. Steam engines and water wheels were the main source of power. Telephones were quite common, especially in our area, thanks to the inau-

THE ACME WIRE COMPANY

Fifty Electrifying Years

1904 — 1954

The Acme Wire Company has four main lines of products, in most of which the Company is a pioneer manufacturer. These products are distributed nationally and for export and are as follows: Magnet Wire, Coils Wound with Magnet Wire, Varnished Electrical Insulations, Electrical Insulating Varnishes and Compounds.

These products are used as basic semi-finished raw materials by the manufacturers of nearly every sort of an electrical device.

The heart of practically every kind of electrical equipment is a coil of magnet wire wound around an iron core and properly insulated. The four lines of Acme products are the essential elements required.

guration of the first telephone switchboard in New Haven. Electric motors were being tried out where electric power was available.

There were many dreamers in the electrical industry. There were many doers who were turning their dreams into practical applications for electricity—such as Mr. Charles F. Kettering who was developing the electric starter for the automobile, in the manufacture of which The Acme Wire Company took an important part.

It was in such an early era of promise of what was to become our present great electrical industry, that The Acme Wire Company had its beginning fifty years ago—in the atmosphere in which Eli Whitney, inventor of the cotton gin and first to use standardized parts in mass production, did some of his most important work.

From a small beginning the Company has grown and prospered. Today it supplies at least a portion of the requirements of practically all of the electrical manufacturers.

Acme Starts Business

In 1904 the demand for magnet wire, while not yet great, was growing. Power companies and trolley lines for the most part operated on direct current and their requirements were for coarse sizes of cotton covered wire. The expansion of the electrical industry with its need for fractional horsepower motors, ignition coils, transformers, electronic, radio and television coils and many others requiring

finer sizes of magnet wire was still to come.

There was one substantial demand for the finer sizes of magnet wire even in 1904, and that was for ringer coils for telephones. The telephone industry was reaching out and expanding enormously. Victor M. Tyler was then Secretary of the Southern New England Telephone Company and he recognized the possibilities of the insulated wire business. When the opportunity came to him to finance the building of some newly designed insulating machines, he grasped it and started to organize a company. One of the first men whose services he secured was Edgar L. Hartpence, who had

practical sales knowledge in magnet wire. These two men were principally responsible for giving The Acme Wire Company its start.

For a factory, the Company rented from the New Haven Water Company the old Whitney Arms Company plant located just below the Lake Whitney dam. Cotton and silk insulating machines were installed and the Company was in business. During the balance of 1904 between \$11,000 and \$12,000 of sales were made at a loss of about \$8,000. The second year, however, operations were in the black and the long period of expansion of sales and profits was under way. One of the first of a long line of developments which meant much to the Company was the commercial introduction of enameled copper wire to the electrical industry. Acme designed and built its own wire enameling machines and was an early pioneer in the application and sale of enameled wire. For most fine wire windings enameled wire proved superior to and was supplanting the use of plain silk and cotton insulated wire.

Another important addition to



OLD ELI WHITNEY arms plant building as it was in the period 1904 to 1914 when it housed the Acme Wire Co.

Acme's line of products was made when it was decided to undertake the production of coil windings. The use of a substantial number of patented multiple coil winding machines was offered to the Company under a license agreement which had about a dozen years to run. A large volume of business was done under this license. It was a profitable one not only for the Company but for the owners of the patents. The latter had come to rely on the royalty payments from Acme to such an extent during the years that the license was in force, that they made a great effort to have the life of the patents and the license extended after the expiration of some of the basic patent claims. Many conferences were held but with inconclusive results. The license agreement was a long and complicated one, and the Company secured a legal opinion on it from Henry L. Stimson (who later became Secretary of War in President Franklin D. Roosevelt's cabinet) and fortified with this opinion, Acme was able to negotiate a satisfactory settlement under which all royalty payments ceased and Acme purchased title to the winding machinery.

In the ten years from its founding, the Company had completely outgrown its rented quarters. A fine factory site in Hamden, a suburb of New Haven, was acquired consisting of about four acres of land near the junction of Dixwell and Putnam Avenues and bounded on the eastern side by tracks of the N.Y., N.H. & H.R.R. Co. which provided sidetrack facilities. An up-to-date concrete and brick plant was built and in 1914 all operations were moved into this new location.

Magnet wire and coil windings then were the chief products of the Company during its early years. To make sure of a good source of supply and to improve its manufacturing and costs, the Company found it advisable to install wire drawing equipment and this constituted a major early addition to its plant production facilities.

The tremendous growth of the electrical industry with its development of electrical devices of all sorts and their demand for semi-finished raw materials has led the Company to expand its lines of products from time to time. In 1921 the production of varnished electrical insulations including cable tape and other related items was begun and these are, today, an important line of Acme products supplied widely to



THOMAS G. NEE
Chairman



HERBERT B. BASSETT
President

the electrical industry.

For many years Acme has had its own plant for the production of electrical insulating varnishes, enamels and compounds. Originally, only materials for the Company's own needs were manufactured. A long range research program leading to better methods of insulation in its lines of magnet wire, coil windings and electrical insulations developed a superior line of thermosetting compounds which were used first in World War II. At that time the high tension harnesses of the engines of all carrier-based planes were filled with this new compound. There were many other war applications. These led to the development of ACME-MOLD coils, completely impregnated and encapsulated coil windings of which many millions are in use today. Acme also produces a complete line of electrical insulating varnishes for the electrical industry.

During both World Wars I and II and since, Acme products have taken important parts in the operation of planes, ships, tanks, radio and in all other types of electrically operated or controlled defense equipment.

The first stockholders' meeting was held June 8, 1904 and Victor M. Tyler, Edgar L. Hartpence and Herbert E. Flather were elected directors. Mr. Tyler became President on March 1, 1905, and Mr. Hartpence was made Vice-President. Three years later, May 5, 1908, Mr. James E. Wheeler became Secretary and this slate of officers remained throughout the early years of the Company.

Mr. Victor M. Tyler retired as President on April 13, 1928 and the Company was fortunate in securing the services of Mr. Thomas G. Nee to fill that office. His conservative but yet progressive policies guided the Company successfully through the depression of the 1930's, through World War II, and laid the foundation for the Company's success and expansion it has since achieved. In 1948 Mr. Nee became Chairman of the Board and was succeeded in the Presidency by Herbert B. Bassett who continues the sound policies of his predecessor.

The Company has been extremely fortunate also in two other particulars—in its Board of Directors and in its Employees.

Those comprising the Board of Directors have been an outstanding group, many of whom have rendered service of a nature far exceeding that which Directors are ordinarily called upon to give, and the Company feels a sense of obligation to them. The Employees of The Acme Wire Company are the one greatest factor in its success. They constitute an organization of fine people who have given energetic and loyal service over the years. In partial recognition of this, the Company provided in 1942 Group Life, Accident and Health Insurance covering sickness and accidents not connected with employment; and effective January 1, 1953 inaugurated a Pension and Retirement Plan, the cost of both of these being borne by the Company. Good employee relations have been maintained at all times.

Products

MAGNET WIRE. Acme's chief product is insulated round solid copper magnet wire which is distributed to the manufacturers of electric motors, generators, transformers and practically all other types of electrical equip-

ment. A coil of magnet wire, when connected to an electric current, generates a magnetic field and acts as a magnet. It is this magnetic force which causes motors to rotate and which actuates generators, transformers and other electrically operated devices.

Fifty years ago, methods of manufacturing magnet wire were a far cry from what they are today. The electrical industry was starting a rapid growth at that time, providing a good market. The young telephone and automobile industries required magnet wire for the various coil windings then needed to operate a telephone system or a car. Yet, many of the high quality materials and improved equipment used today in making magnet wire were not available. In its early years Acme made many automotive ignition, or spark, coils with bare copper wire. A thread of heavy cotton was wound between turns to provide insulation. On occasions the turns of bare copper wire were coated with varnish for insulation. Copper wire insulated with wrappings of cotton or silk yarn was in general use for winding relay and ringer coils for telegraph and telephone use. There was much to be desired in these materials and methods but they were the best available at the time.

In 1906, after considerable experimenting, Acme succeeded in commercially producing a magnet wire with an enamel baked on the copper conductor. Acme is reported to be the first to make a magnet wire in this manner and supply it commercially to the electrical manufacturers. The development of enameled wire was an important step forward because it made available a less expensive insulated wire than had been possible with cotton or silk insulation. This enameled wire had the advantage also of a much thinner insulation and one which could withstand higher electric voltages. The result was a smaller, less bulky, more efficient and lower cost coil winding. This enamel, however, was difficult to handle. It was made of a material similar to pitch and was quite brittle. It was easily attacked by the solvents or thinners of varnishes which were used to treat coil windings for protection against moisture and other elements that would affect their operation. Further improvements were necessary. Important progress was made in the use of enamels made from drying oils, such as linseed oil, and

natural gums and resins. Known as oleo-resinous enamels, they had better flexibility and toughness and were much more easily handled. As time went on, synthetically produced resins and higher quality drying oils, such as Chinawood oil, were used to obtain even better flexibility, toughness, uniformity and resistance to varnish thinners. Although improved beyond recognition from the early product, plain enameled wire which is produced with an oleo-resinous enamel is still a most important material and is used widely by electrical manufacturers in the production of electrical equipment.

Keeping In Step With Developments

Over the years great changes have been made in the design of electric motors, generators, transformers, controllers and the many other electrical devices. There have been almost countless new applications, particularly in the broad field of electronics, radio and television. The emphasis has been upon lower cost, lighter weight, smaller size, increased efficiency. The realization of much of these improvements and developments in the design of electrical equipment has been possible because of the great advancements in the art of making magnet wire in which Acme has been a proud participant. While the present plain, or oleo-resinous, enameled wire is still the answer to a broad field of applications, it will not meet the operating temperatures and abrasion requirements of many of the modern motors and other devices. A wrap of cotton over enameled wire still gives the highest quality of result in many motors when the winding is properly treated with varnish and the operating temperatures are not too high.

Late in the 1930's completely synthetic wire enamel became available. These materials had extreme flexibility, hardness, toughness and resistance to the action of heat and varnish thinners. They met with widespread approval by the manufacturers of electrical equipment and Acme adopted their use. One of these insulations, sold by Acme under the trade name "Formvar," is known as a vinylacetal resin and is somewhat similar to the vinyl plastics which we hear about so much today. Another is Nylon. The same basic material used for making nylon clothing is coated on wire from a solution of nylon. Some customers prefer a composite coating of Formvar

over Nylon, for which Acme's trade name is "Nyvar."

During World War II, when silk was unavailable, nylon textile yarn was substituted. This proved to be most acceptable as a wire insulation and substantial quantities of this type of wire are being made by Acme. A few years ago the "Miracle Fibre" Orlon appeared on the market and Acme was the first to use this new material as a covering for magnet wire.

Today's mode of living would be impossible without magnet wire, for it is present in every motor, transformer or coil winding that drives or actuates the many appliances and devices that we depend upon daily in our homes, at work and in our travels. Magnet wire is a basic product. The quality of Acme magnet wire and the service rendered to its customers by its production and sales organization are such that the company supplies at least a portion of the magnet wire used by most of the electrical manufacturers in the country.

COIL WINDINGS. A large amount of Acme's magnet wire is used in the Acme Coil Winding Division. Here wire is wound into coils on paper cores or bobbins. Coils wound with magnet wire are supplied in volume to the electrical manufacturers who assemble them into their equipment. The number of coil windings used in this country yearly runs into the millions. There are hundreds of different types and Acme custom builds each to the individual customer's specific requirements.

Early coil windings were comparatively crude, as has been stated, but marked improvements in methods and design were soon made. This was well demonstrated by the fact that Acme coils played an important role in the development and production of the electric self-starter. Acme engineers worked with the famous inventor, Mr. Charles Kettering, on this revolutionary device and for several years thereafter Acme shipped many thousands of field coils for self-starter motors.

Through the experience gained in the volume production of many different types of coils, Acme was prepared at the start of World War I and II to render valuable assistance to this country's defense program. Special high quality magneto coils were supplied during World War II for aircraft engines powering the famous P-47 Thunderbolt and P-51 Mustang

(Continued on page 38)



WELL OVER four million crop gathering boxes have been preserved with Cellu-san.

Birthday for Cellu-san

A NEW Connecticut product called Cellu-san designed to improve the efficiency of the nation's food harvesting operations, is celebrating its first birthday in Simsbury. Cellu-san, a water repellent wood preservative is produced by Darworth Incorporated, a wholly owned subsidiary of the Ensign-Bickford Company.

First introduced to the market in 1951 by Nuodex Products Company, the product was purchased by Darworth late in 1953. Today Cellu-san is still the first and only wood preservative made expressly for use by the food industry. Its original development was primarily a response to an ever-increasing demand by food growers for a safe method of preserving and protecting field boxes and baskets used to harvest produce.

The requisites for any satisfactory treatment of wood carriers and containers used for foodstuffs are that it be non-toxic, odorless, colorless and inexpensive. Ease of handling and application must be considered, too, from the standpoint of labor costs. And unless a treatment is relatively permanent, it cannot withstand the humid conditions and other weathering effects to which it is constantly subjected.

The effectiveness of this preservative lies within its two basic chemical components. One, a fungicide, prevents rot by keeping wood free of mold, mildew and decay. The other, a water repellent, minimizes shrink-

age and swelling . . . contributing factors to loosened nails, wood brittleness and breakage. In addition to the protective and strengthening characteristics of these chemicals, tare weights of treated containers are stabilized by controlled moisture absorption of the wood. This produces an additional savings since the canner, during weighing operations, pays only for the weight of the produce and not for extra pounds of water absorbed by the box.

CELLU-SAN is applied by a single in-and-out dip application.



Extensive Testing Program

The new preservative was tested by independent laboratories whose reports stated that Cellu-san treated boxes withstood the fatigue of shocks and handling to a much greater degree, and were far more efficient mechanically than the untreated boxes. Nail-holding power, alone, was increased well over 100%, indicating that a much longer service life could be expected from treated containers. Toxi-

(Continued on page 47)



FREDERICK D. HOUGHTON

The Connecticut "White House" Conference

By DR. RAYMOND F. FAY, Bureau Chief

Bureau of Certification and Public Understanding

State Department of Education

THE scene was the Governor's office. The time was late in the morning of April 21, 1954. The Governor was in conference with the President of the Connecticut Council on Education, the State Commissioner of Education and his Deputy. Under discussion was the plan suggested by President Eisenhower for each state to hold a conference on current major educational problems prior to a "White House" Conference in 1955. As yet the official request of the President to the Governor had not been made, but the press had carried a considerable amount of information about the project.

The education representatives explained that for several years Connecticut had had an annual citizens conference on education sponsored by the Council on Education, composed of representatives of 34 statewide lay and professional organizations, and by the State Department of Education. They expressed the hope that duplicate conferences would not occur in Connecticut as a result of the President's plan and suggested that one way to avoid such a situation would be for the Governor, the Council and the Department to sponsor jointly a Seventh Annual Connecticut Conference on Education. This was readily agreed to by the Governor. Thus Connecticut's regular citizens conference became the vehicle for Connecticut's "White House" conference. Liaison with the Governor's office was provided for by one of his staff members who was assigned to the General Committee established to plan the conference.

A steering committee was formed of fifteen members representing twelve professional and non-professional organizations whose activities are statewide. At the first meeting of the committee, the working committees were authorized, and arrangements made for the appointment of members. A total

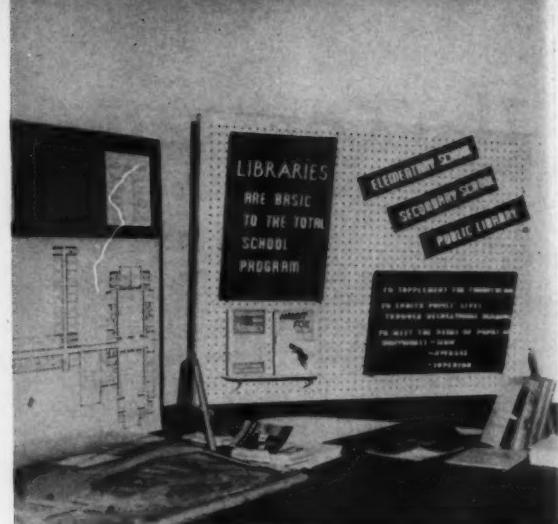
of 75 persons representing 37 organizations served on the various committees.

In planning for the conference, invitation quotas were established and

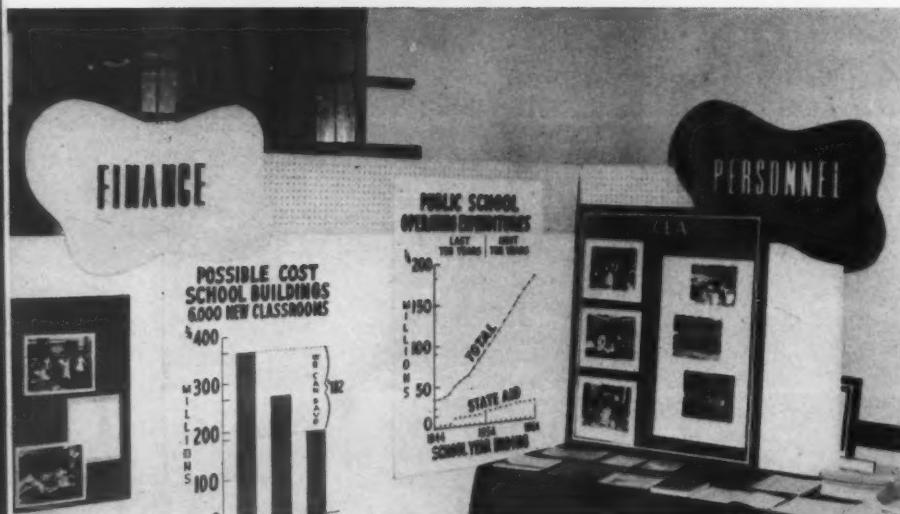
machinery was set in motion to invite a conference membership of between 300 and 500. An effort was made to have at least twice as many non-professional members as professional.



THE CONFERENCE was divided into discussion groups to consider various topics of importance to the conference.



SOME VITAL TOPICS slated for consideration at the "White House" conference were graphically treated in colorful displays.



The conference was held on two days—November 30 and December 1, 1954 at the Hotel Statler in Hartford. Three general meetings were held. The first opened the conference and was addressed by the U. S. Deputy Commissioner of Education and the Connecticut Commissioner of Education. The second was a luncheon addressed by the Dean of Women, University of Pennsylvania. The last, a dinner meeting, included a summary of the conference, an address by the Governor, and a closing inspirational address by the Chairman of the Board of Directors, Chamber of Commerce of the United States.

The participants came from 104 dif-

ferent towns and represented 56 different organizations in Connecticut. They came from rural communities, from industrial centers, and from commuting towns—at considerable expense in time and energy. The conference activities themselves are perhaps best briefly described by the following excerpts from "Highlights of the Conference" as presented by Dr. Rosemary Park, President of Connecticut College for Women, to the closing meeting of the conference.

"Our problems are problems of quality and quantity. We realize the phenomenal expansion of the areas of knowledge and the tremendous increase in the complexities of the world

around us. We ask ourselves, 'Is our school program responsive to this situation? Is it adequate for all of our children? This is a qualitative problem, a perennial problem, which may be reduced to the simple question: What should be taught by whom?'

"We have in addition to such qualitative problems a growing number of quantitative problems which are relatively new for us. Where are we to get the teachers? Where are we to find buildings? Where are we to secure funds?"

As the conference was divided into smaller groups to discuss various aspects of these questions, it quickly became evident that all problems were so inter-related that no group could confine itself entirely to the topic set before it. "Each group also recognized that there could be no solution of the problems presented which did not involve consideration by professional educators and also by the non-professional educators, as we like to call all the rest of us."

Some Outcomes

Concerning the school program: "The school experience or the curriculum should be used as a tool to achieve the individual's development to the highest capacity for life in a democratic free society. Such development would best be based on knowledge of our cultural heritage. The whole educational process was con-

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A Student Reports on N.A.M. Congress

By RENAULD J. PELLETIER

For the third consecutive year MAC has cooperated with N.A.M.'s Education Department in selecting a Junior Student from a Connecticut 4 year degree-granting college to attend the Congress of American Industry held at the Waldorf in New York in early December each year. Mr. Pelletier, a married ex-Marine who served in Korea and who now works part-time in a tool and die shop in his home town of Wallingford, was selected upon recommendation of the President and Dean of Quinnipiac College, New Haven, in which he is enrolled in the Junior class. Prior to his enrollment at Quinnipiac, he attended the Porter School of Machine Design in Hartford. He is now president of Phi Theta Kappa, the honorary society at his college and treasurer and chairman of the Education Committee, Lions Club, Wallingford.

In this brief report, Mr. Pelletier sets forth a few of his concepts of N.A.M. after attending its annual conference.

As a student and part-time employee, I often find myself donating too little time to following current affairs, and concentrating primarily on my studies and on my job. Perhaps this is the reason why I knew so little about The National Association of Manufacturers and its functions when I was informed of my selection as representative of the colleges in Connecticut. It often requires an experience such as I have recently had to arouse greater interest in current happenings and in the groups and individuals who influence these happenings.

Prior to attending the convention, the only knowledge I had concerning the National Association of Manufacturers was limited to the information derived from study in several business management courses I have taken at Quinnipiac College. Naturally, this source of information provides the student with a familiarization of groups like the N.A.M. and their functions, but it cannot come close in comparison with the personal contacts and exchange of viewpoints we as students experienced at the convention. While I was impressed by the sphere of activities participated in by the N.A.M., I was mostly impressed

by the Education Department and by the work they are doing. This department is one branch of the association of which it can be justly proud. It was gratifying to learn that a group such as the N.A.M. has such a genuine interest, not only in education as a whole, but in the individual college and student. While at the convention, it was not uncommon for a student to be approached by a leading industrialist and asked specific questions concerning the student's college or of the student's viewpoints in regard to certain aspects of the platform presented at the convention by the N.A.M.

As a result of the type curriculum I am now enrolled in and of the experience I have had as an employee, I have developed a personal trend of thought with respect to industry and its problems. Although I did not agree completely with the platform brought out by the N.A.M., I can honestly say that the majority of what was said did follow my own philosophy regarding industry and its relationship in the economy. The same feeling seemed to hold true with the other students present. During the luncheons and dinners following the speeches, the students discussed the various topics presented in the preceding sessions and the con-



RENAULD J. PELLETIER

sensus of opinion was in agreement with the point of view brought out by the speakers.

As I stated earlier, I am a part-time employee. I am employed as a machinist in a small tool and die shop in Wallingford. Because of this, I was very much interested in a talk given by Mr. John Diebold on the subject of "Automation". The developments he spoke of and those I learned of later concerning automatic machines certainly made present machines and methods appear out-dated. It can easily be seen that anyone who did not have a complete understanding of automation and its potentials might brand it as being the greatest evil of our time. We can feel certain that automation will be a major topic in labor-management relations to come. A great deal of study and planning must be devoted to the introduction of this new phase in technological advance before it can be presented to the public in a way that will be satisfactory to those affected by it. It is here that the Education Department could be most effective.

It often happens that people fear the thing they know least about. Before any plans are put into effect in any plant, it is imperative that every person employed by that industry be thoroughly familiar with the change to take place and what is to be done to compensate the workers who will find it necessary to be trained in other phases of their present jobs. To insure endorsement of automation by labor, management and the community, it is

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The Development of The American Cotton Textile Industry

DR. IRWIN M. STELZER

Instructor in Economics

University of Connecticut

This article represents a portion of Dr. Stelzer's doctorate thesis. It is presented in C I to give its readers an overall concept of the history of the textile industry of New England with its problems and trends. Dr. Stelzer holds A.B. and M.A. degrees from New York University and a Ph.D. from Cornell. He is currently an instructor in economics at the University of Connecticut. His special field is that pertaining to the relationship of government and business in a free enterprise economy.

THE cotton textile industry is one of the largest of American industries. In 1947 the value of cotton broad-woven goods shipped was \$3,295 million, and that of cotton yarn \$769 million, while thread mills shipped \$154 million and narrow fabric mills \$211 million worth of goods, respectively. In 1950 the industry provided employment for approximately half a million persons. Further, it is estimated that the investment in cotton manufacturing facilities approximates \$5 billion.

This is an industry which has been characterized by conditions approaching those of pure competition—numerous small sellers, a standardized product, and free entry. Because of its important position in the economy, and because it approximates the purely competitive ideal, it should be fruitful to examine the history of the cotton textile industry with some care. Many of the problems of the industry—problems of integration and disintegration, location and relocation, boom and bust, technological growth and stagnation—can best be understood on the basis of its changing historical framework.

Early Growth

The present-day cotton textile industry is the result of a process of uneven growth and development which began in 1790, the year in which Samuel Slater established the first successful cotton mill in the United States with machinery constructed from memory.



DR. IRWIN M. STELZER

Mills had been established in this country prior to that date, but all had failed after a short time. Thus the United Company of Philadelphia for Promoting American Manufactures, established by Trench Cox (Assistant Secretary to the Treasury and a disciple of Alexander Hamilton) in 1775 to manufacture cotton textiles, soon turned to the more profitable manufacture of woolen goods. Mills established by Hugh Orr in Bridgeport and John Cabot and Joshua Fisher in Beverly, Massachusetts, also met with failure. It is worthy of note that Slater's mill was equipped for spinning

only, the spun yarn being distributed to families for weaving into cloth for their own use, or for sale.

The growth of the industry was painfully slow for several years, and by 1807 there were only 8,000 spindles in place in the entire country. In that year, however, came the first in a series of events which were to provide a tremendous stimulus to the American industry. The Embargo Act of 1807, followed in two years by the Non-Intercourse Act and finally by the War of 1812, meant that trade with England was virtually completely suspended. This interruption of commerce simultaneously removed many of the obstacles which had been standing in the way of the growth of a domestic textile industry. The South, now unable to sell its cotton to England, proceeded to flood the New England market with raw cotton, driving the price in that area down by over 50 percent. Furthermore, English cloth was now no longer available in the American market in any save minor amounts, and cloth prices rose from 17 to 75 cents per yard. Since the cost of manufacturing cotton cloth in the United States is estimated to have been about 30 cents per yard at this time, cotton textile manufacture suddenly became a highly profitable endeavor. In addition to these economic incentives, would-be manufacturers found that the shortage of cotton cloth made its production a patriotic as well as a profitable duty and that New England legislatures were granting generous charters to new textile concerns.

The interruption of foreign trade solved still another problem which plagued the industry—a dearth of capital. Many New England men who had accumulated wealth in foreign commerce sought new outlets for their energies and funds. This shift from commerce to textiles is picturesquely

described by M.D.C. Crawford as follows:

"To this rapidly spreading commerce, the embargo of Jefferson was a shrewd blow, to be rapidly followed by the War of 1812 which was the reaction from the envy of British shippers. After a gallant resistance, our little navy was either totally destroyed or sewed up in ports, and our merchant ships captured or rotting at the idle wharfs. The blow that might have crushed a lesser people, simply aroused the energy of New England, and turned her to manufacturing. And now the great idea of cotton production began to be taken up in serious interest."

Francis Cabot Lowell

One person who turned his energies from commerce to cotton was Francis Cabot Lowell, who became a cotton manufacturer when the international dispute cut short his career as an import merchant. Lowell, a Boston man, introduced the power loom to this country in 1814. His Boston Manufacturing Company, established at Waltham, Massachusetts, became the first mill in the world to spin yarn and weave cloth with power machinery in the same plant, i.e., to integrate two of the processes involved in textile manufacture. This company, with 3,000 spindles, was the largest in the country, as well as the first to be financed through the sale of common stock, the first to organize a separate textile machinery company, and the first to employ an independent selling house to distribute its products. This early separation of manufacturing and selling is particularly worth noting. The Boston Manufacturing Company at first tried to dispose of its output through an importing house, but was unsuccessful. It then turned to a Cornhill shop, the only establishment in the Boston area which would handle domestic cloth. Because of the stigma attached to "domestics," however, this shop found it impossible to sell even the modest output of the Waltham mill. Finally, the company consigned a shipment to B.C. Ward and Company, and the later disposed of it by auctioning it off at a price sufficient to give the manufacturer a satisfactory return and the selling house a satisfactory commission.

The success of this sale was not the only factor which led the Boston Manufacturing Company to continue con-

signing its product to B.C. Ward. Poor transportation facilities and sales over a wide geographic area made the extension of credit to wholesalers and retailers an absolute necessity, and mills were forced to sell their output on a three to nine months credit basis. Since raw material and labor costs had to be met as they were incurred, the mill found itself in constant need of working capital. The selling houses—first B.C. Ward and then others—filled this need by adopting the policy of making advances to the mills on the basis of goods consigned to them, thereby acting both as financiers and as the principal distributing agents for the mills. Thus the essentially non-integrated structure of the industry was developed, and the seeds of future controversy and dissatisfaction sown. The manner and extent to which merger was later to bring greater integration of manufacturing and selling is a

story in itself—too complex to be briefly discussed here.

The Boston Company's success stimulated the growth of the industry. By 1815 there were 130,000 spindles in the United States, and by 1820, 220,000. As one observer (Albert S. Bolles) noted, "The building of cotton factories became one of the passions of the age. There was a great deal of idle capital in the country; and the success of Slater, Lowell, and others, stimulated its investment in this industry." The newcomers imitated many of the policies which the Lowell organization had proved successful. Thus, they integrated the spinning and weaving processes under one roof, and enlisted the services of independent selling houses. We have here an obvious example of Schumpeter's general principle that "the appearance of one or a few entrepreneurs facilitates the appearance of others, and these the ap-



THE MOST MODERN METHODS AND EQUIPMENT have contributed to the important strides made by the cotton textile industry in recent years in this country.



A RELATIVE SCARCITY of labor through the years put pressure on textile manufacturers to develop and introduce labor-saving equipment.

pearance of more, in ever increasing numbers."

The termination of hostilities with England brought with it the resumption of Anglo-American commercial relations. Great Britain, in an attempt to dispose of stocks of goods accumulated during the war, and at the same time to recapture the American market, flooded the United States with cotton goods at a price which American producers could not meet. Congress responded to a New England clamor for tariff protection by inserting in the Tariff Act of 1816 a 25 percent duty on cotton goods, and prosperity returned to the domestic cotton textile industry. Rapid expansion followed. The Boston Manufacturing Company, for one, soon found the power resources of the Charles River insufficient for its needs. It therefore acquired a new site on the Merrimac River, and there erected the mill town of Lowell. By 1850 this town was the most important cotton manufacturing center in the country. Other mills were established—both by the backers of the Boston Manufacturing Company and other entrepreneurs—in Maine, New Hampshire, and Massachusetts. These mills, all

north of Boston, were built on the so-called "Lowell System," i.e., they were large-scale concerns, organized as joint stock companies by bankers rather than manufacturers, and designed for the mass production of highly standardized goods. Malcolm Keir's description of the Lowell System is one of the best:

"The largest mills of the 'Lowell System' by 1850 contained generally 6,000 spindles, whereas mills elsewhere contained then as few as 300 spindles. These large mills of the Lowell System each manufactured just one commodity, for example osnaburgs, drills, print cloth or brown sheeting, 37 inches wide. If a company produced more than one item it manufactured each in one mill devoted exclusively to one commodity, that is, sheeting in one mill and drills in another. Some factories ran for years without a single change in the major adjustment of machinery or the slightest variation in their product. This saved one of the big costs of cotton manufacture, namely, alteration of machinery to make a different article."

The Lowell and Providence Systems

The Lowell System had the further advantage of allowing for division of labor to an extent great enough to permit operation of machinery at above-normal speeds. All in all, this method of operation proved highly profitable. Dividends ranged from 15 to 30 percent, even after a comfortable surplus had been set aside and after considerable expansion of facilities had been financed out of current earnings. The expansion of the New England mills south of Boston took a somewhat different form, with mills of that area following what has become known as the "Providence System." Mills in the latter category were owned and operated by individual proprietors who were, in most cases, skilled textile manufacturers rather than bankers. These plants were small, equipped with British-type machinery (due largely to the influence of Slater), and designed to turn out a variety of relatively high quality fabrics. Employers north of Boston relied chiefly on rather high quality female labor, while the Providence entrepreneurs early introduced English labor practices into their mills. This involved the wide-spread use of child labor, payment in kind, and many policies which

can be classed as "paternalistic," in the worst sense of that word.

The characteristic common to both systems was rapid growth. By 1860 some 1091 mills were turning out 115 million dollars in cotton goods on about 5.2 million spindles. In doing so the industry was providing employment for some 122 thousand persons. Not only was there growth, but there was an increase in average mill size—from 1,500 spindles per establishment in 1831 to 4,900 in 1860—and in efficiency. While the number of employees in cotton mills just about doubled between 1831 and 1860, the number of spindles increased by four and a half times, and cotton consumption by five and a half times. The relatively high degree of efficiency which characterized American plants was noted by a highly competent contemporary observer sent from England to compare the relative efficiencies of American and British plants. ". . . it may, without fear of contradiction, be asserted, that the factories at Lowell produce a greater quantity of yarn and cloth from each spindle and loom (in a given time) than is produced in any other factories without exception in the world." Still another early observer stated that the American mills "are organized upon the most improved principles of the art and are supplied with the best machinery in the world."

Output per worker was, of course, increasing in mills throughout the world, but scattered evidence seems to indicate that progress was most rapid in this country. Thus, in 1860 the average number of looms per weaver was four in the United States and only two in England. The power loom had hardly come into use in France or Germany, and the hand loom, completely discarded here, was still in use in Great Britain.

The more rapid rate of introduction of textile machinery in the United States was just another example of the general phenomenon which had already become characteristic of this relatively high wage economy. A relative scarcity of labor and the resulting wage level put pressure on textile manufacturers to develop and introduce labor-saving equipment. This development would seem to bear out Rostow's statement that, "The appropriate general proposition concerning the composition of innovations seems to be that necessity is the mother of invention." In this instance the "necessity"—present in the United States but absent

elsewhere—was created by the pressure of growth upon a limited resource.

Despite its rapid growth in the pre-Civil War period the American industry did not approach the British in size. It has been estimated that the total number of spindles in England reached 21 million by 1850 and 30 million by 1861, as compared with 3.6 million and 5.2 million in this country on those dates. It was pointed out by contemporary observers that the American manufacturer was laboring under several disadvantages. "He pays higher wages. . . . His machinery is much dearer. . . . The interest of money and the profits of capital are considerably higher in the United States than in this country [England], which, of course, makes the price of goods higher. Owing to the climate, the raw material goes further in England, where some of the waste cotton can be spun." In addition, the American producer at this time found that he was at a decided disadvantage in the production of quality goods because of the greater experience of both British labor and capital. In the production of heavy drilling and sheeting, on the other hand, the Americans were on an approximately equal basis with their overseas competitors, as is shown by the fact that between 1830 and 1860 imports of plain cloth fell from \$2.9 million to \$1.2 million while our exports of that material rose less than \$1 million to almost \$4 million. The inferiority of America's fine goods and the equal staus of its coarse goods was attested to by an English writer, who in 1835 reported:

"On the whole, it may be said that the Americans are capable of rivaling the English in coarse and stout manufacturers, in which large quantities of the raw material are used, especially in an article called 'domestic,' which they consume largely, and export to some extent; but that in all other kinds of goods, in all which require either fine spinning or handloom weaving, the English possess, and must long continue to possess, a very great superiority. . . . Our manufacturers have therefore little to fear from American competition."

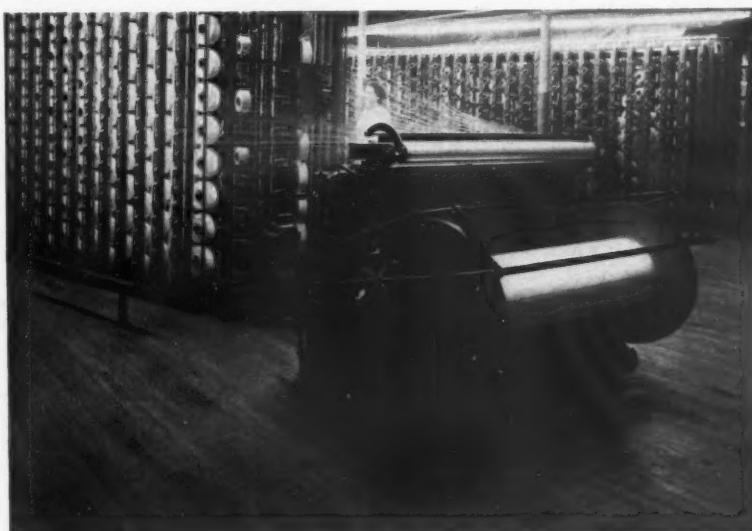
The Impact of the Civil War and World War I

The growth of the industry was halted momentarily by the Civil War, which cut the cotton growing and cotton manufacturing regions off from one another. The "cotton famine"

which developed in New England saw the price of raw cotton rise from 11 cents per pound to \$1.67 per pound, a rise which led many mills to follow the example of the Merrimac Manufacturing Company. That organization, sharing the widespread belief in "peace in sixty days," shut down its mills and liquidated its cotton in the hope of making a large inventory profit on what appeared to be a temporary situation. The failure of a quick peace to materialize soon caused widespread shut-downs, and between 1861

The number of spindles per establishment, however, rose from 4,766 in 1860 to 7,416 in 1870 and 14,153 in 1880. The number of employees per mill, cotton consumed per mill, and average value of product per mill also increased sharply. This increase in mill size continued steadily, and by 1914 the average mill had over 25 thousand spindles.

This increase in the scale of production heightened the mills' reliance on the selling houses, as each manufacturer found himself with a larger and



CONSTANTLY IMPROVING PRODUCTIVE EQUIPMENT, multi-shift operations and improved management techniques are important factors in the industry's increased output.

and 1865 two-thirds of the spindles in the Lowell area remained idle. Many mills lost large sums experimenting with cotton imported from India, Egypt and Brazil.

Fortunately, the postwar recovery was a rapid one. Carried along on the wave of a general business boom, the cotton textile industry made rapid strides. By 1870 production of cotton manufactures was at an all-time peak. Although it experienced a slight setback during the panic of 1873, the industry continued its rapid growth, much to the amazement of most observers. "This extraordinary recuperation is one of the marvels of the age. It is an indication of the inherent vigor and vitality of the American people, which promises well for the future of our nationality." It is interesting to note that during the post-Civil War recovery the number of mills actually declined by about 25 percent.

larger quantity of goods to sell in increasingly complex and far-flung markets.

The growth thus far described received a further stimulus from the outbreak of the First World War, which brought large Government orders as well as high prices. The immediate postwar period saw demand continue at record-high levels, and when a Republican Congress added to this already bright picture in 1922 by increasing the low tariff established by the Democrats in 1913, profits soared. This boom, however, did not last. In 1923 the number of active cotton spindles reached its peak, and in 1924 earnings turned sharply downward. Thus, the cotton textile industry staged a private depression all its own long before American industry in general took to its bed in 1930. Because the industry did not participate in the 1925-1929 boom, (by the end

of the 1920's cotton manufacturing was listed with coal mining as a sick industry) the post-1929 events represented only a worsening of downward trends already evident in profits, prices and textile employment.

The New Deal

It is interesting at this point to briefly examine the New Deal anti-depression measures as they affected the cotton textile industry. On July 9, 1933, The Cotton Textile Code—the first approved under the National Industrial Recovery Act—was adopted. The code approved collective bargaining, limited hours of work to 40 per week, required that there be no reduction in weekly pay, limited mill operations to two shifts of 40 hours each, provided for the collection of statistics and accounting data, and prohibited installation of new machinery without permission of the National Recovery Administrator. The key provision, of course, was that which limited mills to 80 hours per week. This restriction worked strongly to the benefit of the Northern mills, which had earlier been forced onto a one shift basis by a lack of orders. Southern mills, which, until this time had been operating on a two shift, 110 hour week, had to reduce their operations sharply in order to comply with the N.I.R.A. code. When a brief flurry of prosperity brought a flood of new orders in 1933 (and the most profitable year the industry was to have between 1927 and 1936) New England mills were able to expand operations to a two shift basis while southern mills were being forced to contract output.

New Deal legislation also influenced the industry through its effect on costs. The Bankhead Cotton Control Act of 1934 in effect made the Agricultural Adjustment Act of the previous year compulsory. The amount of cotton that a farmer could raise was limited by the imposition of a prohibitive tax of 50 percent on ginnings in excess of the allotted quota. Those who refused to participate were given no allotment, and therefore had to pay a tax of 50 percent on all the cotton they sold. Production was sharply reduced and raw cotton prices rose, more than doubling between 1932 and 1934. It does not follow, however, that cotton manufacturers were adversely affected by this increase in raw material costs. The crop restriction program tended to keep cloth production at somewhat lower levels than it might otherwise

have reached and this, combined with a recovery of demand, caused cloth prices to increase sufficiently to bring mill margins in 1934 to 43 percent above 1932 levels.

Other legislation passed under the New Deal regime tended to affect labor costs in textile manufacture. The National Industrial Recovery Act established a minimum wage of 30 cents per hour for southern textile labor and 32.5 cents per hour for northern labor. The Walsh-Healey Public Contracts Act of 1936 set minimum wages and maximum hours for firms manufacturing goods exceeding \$10,000 in value for the federal government. The Fair Labor Standards Act, passed a few years later, had a greater effect on the low-wage textile industry than on other industries. Even more important was the passage of the National Labor Relations Act, which greatly aided both the United Textile Workers (A.F.L.) and the Textile Workers Union of America (C.I.O.) in their organizing efforts.

It is probable, however, that these measures did not lead to increases in unit labor costs. One set of estimates shows an actual *decline* in these costs during the thirties, indicating that higher rates of pay induced some increased efficiency of mill operation.

Thus, although the legislation previously referred to did force an increase in raw cotton prices, it cannot be said that on balance New Deal anti-depression measures proved detrimental to the cotton textile industry. The increase in the general level of industrial activity and employment attributable at least in part to the overall effects of such moves rebounded to the benefit of the cotton textile industry. Thus per capita consumption of cotton rose from 21.14 pounds in 1930 to 21.53 in 1935 and 29.77 in 1940, and the level of productive operations in cotton textiles increased from 61.3 percent of capacity in 1935 to 96.2 percent in 1940. This improvement in the industry's condition was also reflected in the profit figures, which rose considerably during the period in which this legislation was in operation.

World War II

The outbreak of World War II brought with it a return of textile prosperity on a scale not seen for twenty years. Rising consumer incomes and large government orders increased the demand for textiles to

peak levels. The fact that production reached a peak in 1942 and declined somewhat thereafter was due, not to a deficiency of demand, but to the fact that scarce labor was attracted to better-paying jobs in other industries. Nevertheless, cloth production in the 1941-1945 period exceeded the 1935-1939 level by 34 percent. Expansion was not of equal magnitude in all lines, of course. Mills shifted to products made of coarse and medium yarn like sheeting and osnaburgs (for bagging to replace imported burlap), cheesecloth and tobacco cloth (for bandages), netting (for jungle cloth), twills (for uniforms), denims and chambrays (for work clothes), duck (for tents), and narrow fabrics (for belting and straps). This shift in the nature of the industry's output resulted in a scarcity of finer consumer goods such as shirts, curtains, and sheets just at the time when rising incomes caused the demand for these products to soar. This situation served to build up a backlog of consumer demand which was to stand the industry in good stead when government orders fell off.

This high level of production was accompanied by a decline in the industry's productive equipment. The number of spindles in place declined by two million between 1939 and 1944, a decline of nine percent. To some extent this was due to the unavailability of machines to replace those wearing out, to some extent it was due to pessimism concerning post-war prospects, and to some extent it was merely the continuation of a pre-war trend. (The number of spindles had declined by 26 percent during the thirties). That this decline in physical facilities was associated with an increase in production was due to further extension of multi-shift operations and to improved management techniques, both of which made each unit of equipment capable of producing a larger output.

The increased level of demand and activity during the war brought with it an increase in margins and earnings. This high rate of profits was not only maintained, but increased, in the post-war period, and the industry was discharged from its sickbed. Declines in 1948-1949 and 1951-1952 proved to be short-run phenomena from which the industry quickly recovered. Since it had experienced an integration and

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The Curse of Subsidies—Some Remedies

By HON. RALPH W. GWINN

Editor's Note: In his remarks before the House of Representatives on August 12, 1954 Congressman Ralph W. Gwinn of New York, spotlighted the serious extent to which powerful groups have wrecked the floodgates of constitutional limitation on the right of Congress to buy votes through the extension of governmental subsidies for all manner of projects demanded by these groups. The remedy for this evil which could eventually make all citizens the puppets of big government lies in the hands of the people, Congressman Gwinn believes.

MR. SPEAKER, some time ago the Government took by force private property by taxation and gave big gobs of it to the beef cattlemen. In effect, beef became the public property of the Government. More and more people went into raising beef for Government subsidies. Surpluses of cattle increased. Prices to the consumers were fixed high by the Government, in spite of increasing surpluses.

Beef Revolts

Suddenly the people quit eating beef. They struck. Just as suddenly the sturdy big-hatted ranchers woke up to the fact that they were raising socialized beef for Government, a most unreliable political customer. They had lost their real dependable customers, the American people. So the cattlemen took a vote and threw out Government price supports and control of their business. They chose the hard road of winning back their customers in a free beef market. That meant lower prices, but increased beef consumption from 62 to 76 pounds per capita—an alltime record. Congress was not smart enough to stop subsidies, but the cattlemen were.

Potatoes Gain Freedom

The potato growers were corrupted for years by Government checks totaling \$478 million. They, too, delivered their potatoes to the Government instead of the consumers. Suddenly the taxpayers were shocked to see the Government paying farmers for potatoes with taxpayers' money, then burning the potatoes to make them scarce to keep the prices high. To make it worse, after destroying the potatoes on one side of the road, the Government

bought potatoes from Canada to feed the people on the other side. Year after year Congress could not stop it. The people did stop it. Potatoes won their freedom from Government. And tough as freedom is, potatoes would not go back into socialism, viz., management, ownership, and control by the Government.

People Reject Government Housing Too

In the same way the Government has been insisting on taking by force private property and building publicly owned Government houses. It rents them at half rent, exempt from taxation. The billions of taxpayers' money cannot be accurately counted. Of course, Government expects tenants to vote right in return for such favors. A very narrow majority in Congress has been insisting lately on forcing public houses on to the people in spite of the fact that the people do not want them. Generally wherever the people vote they throw out Government housing, keep their own money at home, and build their own houses.

Schoolboys Understand But Congress Doesn't

Now come the people of Tennessee telling the true story of TVA, the first and most highly touted of American socialist experiments. It is turning out very badly for Tennessee. For Tennessee has become totally dependent upon Government for electric power and appropriations from Congress. It is falling behind the other 10 South-eastern States in production and distribution. That is because the other States are not dependent on what Congress may or may not do. The other

States make and pay for their own electric power and depend on themselves. Tennessee has found by bitter experience that business firms will not move into their State where electric power depends on Congress taking money by force from far-distant States. What's more, Congress is finding it more and more impossible to buy votes in Tennessee by charging the cost to Massachusetts, New York, Illinois and other States. Even the little schoolboys now define TVA as "a river that flows through 7 States and drains 41." Yet they are being drained again in 1954 for the 22d year. The total take to date by TVA is \$1,800,000,000—all from taxpayers.

This year be it noted, a Republican Congress is appropriating less than any year before, but it still gave \$120 million to build steam plants. That will help heat Tennessee houses with electricity, though Tennesseans have plenty of coal in their backyards which they could use. They could also use oil like other people. But it is cheaper to use electricity so long as taxpayers in other States can be socked to provide it. But Tennessee knows that no scheme to buy votes as crazy and incredible as TVA can last. This administration has already given fair warning. So Mr. Robert M. Metcalf, Jr., vice president of Guaranty Mortgage & Trust Co., of Memphis, Tenn., comes up with this remedy. He proposed a new and greater TVA in Spotlight for the Nation. He says:

A New and Greater TVA

We are nearing a fork in the road. With the inexorable march of events, it may not be far ahead.

Probably during this administration, our Government will be faced with a choice of what to do with TVA—for the long pull. The administration itself is pledged to a withdrawal of Government from the fields of industrial enterprise. The new Hoover Commission is already girding itself for that job; a task force of the Commission under Ben Moreell is working in the specific realm of water resources

and power. In the battle that has already raged for years in the press and through the Halls of Congress, the recommendations that come in from the task force may well bring on the climax.

With the taxpayer who lives elsewhere in the Nation naturally reluctant to continue being forced to invest in power facilities for Tennesseans, the fight over TVA appropriations has become increasingly bitter.

The resident in the TVA region, on the other hand, sees TVA as a fait accompli and will declare war at the flick of a power switch when he feels that his city's growth has a ceiling being placed on it by threat of a power shortage. He realizes that it is unsound and risk-filled to be dependent upon Congressmen from all sections of the country to vote funds for his power expansion needs. Nonetheless that is the way it has been and still remains.

What would be the happiest solution of the problems posed by TVA—the best answer for the country as a whole and for the residents in the TVA region?

It is this: Sell the power-generating facilities to the people in the area it serves.

By this one stroke we would accomplish these great objectives:

1. Reverse one of the biggest socialistic steps the United States has ever taken.

2. Lift TVA off the backs of the Nation's taxpayers (as it has been with respect to (a) its demands for capital funds and (b) its nontaxpaying status, though a producing enterprise).

3. Get the ownership of TVA truly in the hands of the people (and they would be the people most concerned) with control of the vast project at home.

4. Give to TVA the dynamism and flexibility of private enterprise, with an ownership truly alert and responsive to power needs.

5. Eliminate the tyranny, abuse, and graft of politics to which an institution like TVA is so subject.

6. Stop the threat of a power shortage that constantly hangs over the TVA region because of dependence upon Congress for growth funds.

The legislative processes to bring into being this new TVA need not be labyrinthine. They might well lead to the following steps:

1. Empowering TVA to issue bonds, debentures, preferred and com-

mon stock for private sale (in the order noted below), specifying that the United States Treasury shall be the ultimate recipient of all securities sales proceeds.

2. Sale of the senior securities first, in proportions that are normal for a public utility of that type.

3. Sale of the common stock, to be offered first to individuals residing in the TVA region. The equity would probably not be too large, after step 2 is taken, for the TVA region residents to take all of the stock. They would be allowed to purchase for cash, exchange for United States bonds or pay by installments.

4. Election of board members by the new owners and complete divorce of TVA from the United States Government. The cognizant State regulatory bodies would take over regulation, and from them must be obtained prior agreements to allow rates to go to proper economic levels.

Then Mr. Metcalf concludes by asking, "Could any American dedicated to basic principles ask for a better TVA?"

And so, Mr. Speaker, I propose to the people that they help Congress as Mr. Metcalf has helped with a new idea. That's where new ideas come from. No President, no Congress, no government can solve our problems without such help. For twenty years Congress indulged itself in a kind of vote-getting game, sometimes under the lash of a President, to redistribute the wealth. They indulged in doing good with other people's money without too much disturbance to conscience. If conscience were disturbed, alleged national defense relieved it.

But by now each group getting the benefits of the redistribution are running head on into each other or running out of benefits. Indeed the mess, which this Congress came into power 2 years ago to clean up, has smeared the faces of those who have quite diligently wrestled with it.

Which Subsidy To Knock Out First

If there are critics of the failure of Congress to reverse the New Deal trend and reduce taxes much more, let them answer these questions. Which particular group feeding in the public trough would they knock out first? Which subsidy law would they repeal to start with? They must be repealed one at a time. That is, which group's vote would they risk losing first? The attempt has been made.

Corn Attacks Peanuts

Three weeks ago the Illinois delegation in Congress representing corn attacked peanuts. Corn having been for nearly 20 years in the public trough and feeling quite secure said in effect: "Now what basic rights have peanuts to put their feet in this trough?" "Why the country would never miss them if we never raised another peanut. They are indigestible anyway." And corn called for a vote of all the others to throw peanuts out. Whereupon peanuts furiously counter-attacked with most devastating effect. They said, "Why of all those feeding in this trough that have grown sleek and fat and should be thrown out, it's corn. Above all others it should fall on its knees and ask forgiveness for its sins in the well of this House." So little peanuts, who really had no case at all shamed corn and scared the others so that the vote was 228 to 170 to keep peanuts in. After the fight it appeared that peanuts might get nearly as much subsidy as corn got for keeping itself padlocked in cribs so as to make itself look scarce and high priced.

Apples Take Interest

After that vote in which peanuts did so well, apples were heard tumbling all over themselves out in the Halls of Congress. They said, "Why sure enough we are just as basic as any of the rest. Besides we can be kept by freezing. What's more basic than an apple a day keeping the doctor away?" In the distance you could hear groups without number organizing the votes. So every seat in the House may be endangered unless the Member votes to give each new group theirs for no good reason except that all the others are getting theirs. When I asked a friend on the floor if this would ever stop, he answered "No; it will go on forever."

Government Substitute for God

Does not history prove that when government controls the economic laws of potatoes, it controls the moral laws of people surrounding them? If government owns your house, and rents it to you, it will tell you how to live in it. You may commit one sin or have one illegitimate child in government housing but not two. This is the rule in the housing authority book of morals in Houston, Tex. You are free to vote, of course, but if you vote against the party that provided your

(Continued on page 68)

The Eleventh Commandment of Training

The Evaluation and Adjustment of the Training Program

By DONALD J. WOOD

MANAGEMENT professionals can recite the ten commandments of training, but sometimes forget that there is an eleventh commandment. To insure the success of any training program, a complete training cycle demands an analysis and evaluation of the results in order to determine the effectiveness of the training, and the effect upon the morale and operation of the employe group.

In all successful training programs the department head is encouraged to check with his foremen to see if the employees are using the information and practices received in the training process. If the program is not achieving its objectives, then the training is not adequate, the employees are adamant, or the approach and the planning may be wrong. If any of these signals are noted, then adjustments and refinements in the program are necessary, and are initiated immediately.

I. It Takes Planning

Before the program is started, management generally establishes some methods of checking the results of the training, for if the work of the employe staff is not improving then the program must stand analysis, and improvements made.

This check includes all segments of the plan, and careful study is made of the program, the subject matter, the methods of training, the enthusiasm and attitude of the staff, and the executive or trainer delegated to perform the training function.

II. It Takes Observation

Another excellent means of evaluating the program is to study the work of the employees. Management has found that scheduled conferences with the foremen group can readily produce the results of a training program. Foremen are encouraged to note the individual man and his work performance.

After each individual man and his work is analyzed by his immediate foremen, then the results of the individual departments can be studied to determine whether there has been any im-

provement in operation or morale as a result of the training plan.

The object of employe evaluation is to determine the progress of each employe. This evaluation is a determination of the value of the training, and its effect upon each employe—and at the same time—his worth to the company and his potentiality as a future executive.

III. It Takes an Analysis

Another question that the training leader could ask himself is whether the program is stimulating the employes to improve themselves. It should be remembered that many of the values received from training are intangible, and cannot be measured, but a check is made to determine:

1. If the program is headed in the right direction, and
2. If the program is making progress towards the established objectives, and
3. If the program is satisfying the needs listed when the training was initiated.

IV. It Takes Patience

The integration of training into daily work habits is not easy, and the training leader should not expect miracles to be worked overnight; nevertheless, he can feel the pulse of the staff and the program to determine if the training plan is progressing satisfactorily. Never should he draw conclusions, unless a careful and analytical study has been made, for unreasonable and hasty generalizations may doom the program to failure.

In evaluating and determining the success of a program four improvements should be noted:

1. A definite and permanent improvement in the work of the employe group, the trainees.
 2. More cooperation and loyalty within the organization.
 3. Improved morale in the department.
 4. Enthusiasm for self-improvement.
- If any of the four, or all of these factors, are not present, then it is time to change and improve the training procedure. If no improvement is noted,

then the training leader changes the subject matter, the methods of teaching, or the programming.

When changes are necessary, changes should be made; there is an old axiom that everything can be improved, and training program is not excluded.

V. There Are Rewards

This appreciation of a company's responsibility to train and develop its employes through a carefully planned, executed and evaluated training program benefits each individual company, employe, and society.

The company benefits through increased morale, better production, less turnover and absenteeism, elimination of wasteful practices, encouragement of initiative and ambition, and better public relations with its customers.

The advantages of a training program to the employe group are:

1. the satisfaction of the desire for security; greater job security through a knowledge of how to do the job better,
2. the satisfaction of the desire for recognition,
3. the satisfaction of the desire for self-expression,
4. the satisfaction of the desire for a new experience,
5. more opportunities for increased earnings,
6. more job satisfaction and interest, and
7. better opportunities for promotion.

And can it be denied that the community has not benefited from the training and betterment of the employes? It is axiomatic that everyone in a democracy must have equal opportunity to improve himself and his family according to his ability. Modern management has accepted this tenet, and is providing the employe with the chance to improve himself. No one can deny that when an employe attains full personal development and efficiency, the community becomes a better place to live. The need for sponsoring ways and means to improve the average employe has become more realistic in recent years, for industry has become more social-minded.

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"I had to hit something. I missed the youngster by an inch but crashed into a car parked at the curb. I was a hero to everybody except the people whose car I hit. They wanted their damages paid. When I telephoned Liberty Mutual, the claimsman lifted the worry right off my shoulders — said my responsibility would be met fairly and promptly." Liberty's *direct service* is better and quicker service. There are Liberty offices, coast-to-coast, and in Canada and Hawaii.



Whiffle-hound teaches children safety on the streets. This amusing dog (*his name is "Safety"*) has eyes that flash red and green. On film, in booklets and in person, he travels around the country to show school kids how to avoid getting hurt. The Whiffle-hound is part of Liberty Mutual's many-sided program to increase pedestrian safety — to save lives and injuries and to keep insurance costs low.

THE COVER

NEWS FORUM

This department includes a digest of news and comment about Connecticut Industry of interest to management and others desiring to follow industrial news and trends.

PITNEY-BOWES, INC., Stamford, manufacturers and distributors of postage meters and mailing machines, has been named a principal distributor of the Macey Company's paper collating equipment, according to Harry M. Nordberg, Pitney-Bowes vice president for sales and service. Previously, the sole distributor had been Harris-Seybold, Inc., of Cleveland, Macey's parent company.

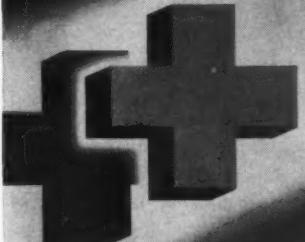
Business, industry, institutional and government users of Macey collators will now have the added advantage of Pitney-Bowes' nationwide sales and service organization of more than 1,600 men, operating out of some 250 sales and service points maintained by Pitney-Bowes in the United States and Canada.

Macey collating equipment, replacing the hand assembly and gathering of paper forms, bulletins, catalogs, instruction manuals, and many other forms, comes in 16 fully electric, auto-

matic models with from 4 to 16 "stations", or hoppers of material to be collated.

★ ★ ★

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★ ★ ★



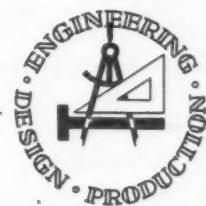
This month's cover is a photo of the smokestack and tank at the Acme Wire Company's plant in Hamden, Conn.

A NEW TWELVE PAGE CATALOG illustrating the stamping, drawing, forming and heading facilities of its Fabricating Division has been announced by The Plume & Atwood Manufacturing Company, Thomaston.

Plume and Atwood will shortly be in full operation in its new 150,000 square foot fabricating plant built to their specifications and located across the Naugatuck River from the Rolling Mills. With additional stamping and forming equipment, its facilities will be among the most modern in the industry, according to company officials.

The colorful new catalog also shows how by combining operations several items are now produced by Plume & Atwood at substantial savings.

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A REVOLUTIONARY NEW carbide-tipped reamer that guarantees new performance, longer life and lower cost has been introduced by The Nelco Tool Company, Manchester. The company has named this new tool the Five Star Reamer as it incorporates five star features which are said to create efficiency and economy.

These features are included in the tool: Protected Centers make true regrounding sure and easy, even after prolonged hard use; unequally spaced teeth eliminate vibration and chatter; new Nelco super strong braze resists stress and permits use of harder grade carbide than is found in conventional reamers; extra long carbide tips to allow more regrinds, longer tool life, greater tool economy; hard chrome plates flutes on hardened tool steel body create an even surface for running in guide bushing.

★ ★ ★

TWO NEW BULLETINS, outlining the features, manufacturing methods and applications of the company's full line of socket screws has been published by the Socket Screw Division of The Bristol Company, Waterbury.

Including tables of nominal sizes, basic dimensions and tolerances of the American Standards for screw threads, as well as engineering data and specific application information for each type of screw, the twenty-page two-color bulletins are well illustrated with photos and line drawings.

Information is given on socket set and cap screws, flat head cap screws, pipe plugs and shoulder screws, as well as screws of special shapes, sizes and materials.

Both bulletins are available on request from The Bristol Company, Waterbury 20, Conn.

★ ★ ★

THOMAS I. S. BOAK, president of the Plume & Atwood Mfg. Co. announced recently that Edward W. Seymour has been elected secretary of the company. Mr. Seymour succeeds David Williams, who has retired.

Mr. Seymour joined the Plume & Atwood organization in 1947. He has been office manager of the Fabricating Division, assistant controller and assistant secretary.

Prior to his association with the Waterbury firm, he was on temporary assignment with the Bureau of Sup-

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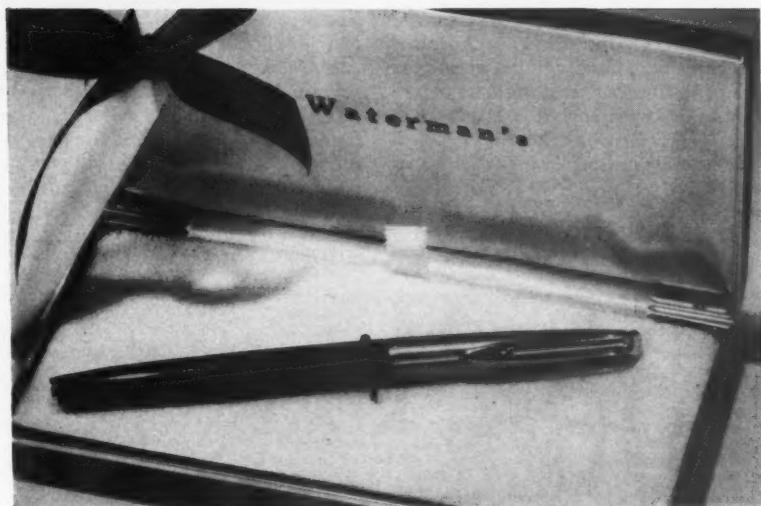
plies and Accounts of the Navy Department in Washington.

Mr. Seymour had also been employed as assistant to the president of Jefferson Island Salt Company in Kentucky and salesman for National Cash Register Co., Dayton, Ohio.

★ ★ ★

THE SECOND HOOVER COMMISSION, now in the final stages of its study of the Federal Government, has recently made a progress report to Congress. Dated December 31, 1954, the report, signed by former President Herbert Hoover, the chairman, informed the Congress that within the next few weeks the Commission expects to submit to Congress its recommendations based on reports submitted by seven of its task forces. Other reports will follow as they are completed, studied and Commission action taken.

Fourteen important areas of government have been the subject of inquiry by the Commission, whose objective was well described by Herbert Hoover when he said, "The major purpose of



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the Commission is to find ways of saving money for the taxpayers."

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Hoover Report is being organized from coast to coast by the Citizens Committee for the Hoover Report. Encouraged by the unprecedented record of the First

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Hoover Report—over 70% of its recommendations adopted—voluntary bipartisan groups are being organized in each state, building up a grass-roots demand for better government at a better price through the adoption of this latest Hoover blueprint for Federal reorganization.

★ ★ ★

THE FORMATION of Kaman Aircraft of Canada, Limited, was an-

nounced recently by Charles H. Kaman, president of the Kaman Aircraft Corporation, Bloomfield. Kaman Aircraft of Canada is a wholly-owned subsidiary of the parent corporation and is located in St. Catharines, Ontario. The Canadian subsidiary has been established to enable Kaman to be in a position to enter the Canadian helicopter market which is now beginning to show considerable promise militarily and commercially.

ENTHONE, INC., New Haven, have announced that a new four-page illustrated folder is available which describes Enthone "Enstrips". These are described as materials for selective stripping of one metal from another—nickel from steel or copper, tin or tin-lead from copper or steel, and copper from steel. A handy chart is included to enable easy selection of the proper stripper for any particular job.

★ ★ ★

SCOVILL MANUFACTURING COMPANY has announced the appointment of Arthur P. Hickox, vice president, to be general manager of the firm's main plant operations in Waterbury. He joined Scovill in 1910, was named general purchasing agent in 1920 and was elected a vice president in 1940 and a director in 1944. He is a graduate of Wesleyan University.

Succeeding him as director of purchasing is Lewis F. Cobb, who has been assistant director.

★ ★ ★

FRIENDS and fellow workers tendered a testimonial dinner to Robert C. Swanton, director of purchases of the Winchester operation of Olin Mathieson Chemical Corporation, recently, marking his retirement, under the company pension plan, after 39 years of service.

Mr. Swanton retires from active business as one of the outstanding figures in the nation's purchasing field, the recipient of many local, state and national honors, and, in 1952, the award of the J. Shipman Gold Medal, highest award in national purchasing circles. The Shipman Medal, founded by the Purchasing Agents of New York in 1930, is awarded each year at the National Association of Purchasing Agents Annual Banquet "to one who by precept, example or distinguished service, has contributed to the advancement of purchasing."

Mr. Swanton plans the development of a consulting program of national scope, on purchasing and materials management, as well as special economic analysis work, along the lines of the business survey.

★ ★ ★

JOHN B. GOSS, assistant secretary of Scovill Manufacturing Company, Waterbury, has recently resigned that post. Mr. Goss started work with the

The graphic features a large pencil tip on the left, writing the text "96 YEARS" in a large, bold, sans-serif font. Below this, in a smaller, rounded rectangular area, it writes "OF DEPENDABLE SERVICE TO CONNECTICUT INDUSTRY". To the right of the pencil tip, there is a stylized drawing of a factory or industrial complex with smokestacks emitting smoke, and a road leading towards it.

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ENTHUSIASTIC thousands attended the General Motors Motorama of 1955 at the Waldorf-Astoria Hotel to see the newest cars of today and tomorrow. Attending the Motorama preview were (left to right) Harry T. Burgess, New Departure, Meriden plant manager; Seth H. Stoner, general works manager; Harlow H. Curtice, president of General Motors; William J. Ryan, Bristol plant manager and Alfred F. Herold, Sandusky plant manager.

firm in 1928 and was the first to be enrolled in the advanced training course. He was elected assistant secretary at the annual meeting in 1947, but has been on sick leave for the past two years.

He is a son of the late John H. Goss, who was president of the company from 1938 to 1944.

★ ★ ★

LEE P. SMITH, has been appointed controller of the Bush Mfg. Co., West Hartford according to a company announcement.

Mr. Smith is a graduate of Babson Institute of Business Administration and prior to joining Bush was associated with the Peck, Stow & Wilcox Co., where he was secretary and assistant treasurer for several years.

★ ★ ★

ALL PATENTS, trademarks, pat-

terns and other assets of the Branford Oil Burner division of the Malleable Iron Fittings Co., Branford, have been sold to a new corporation, Branford Tank and Heating Products, Inc.

The transaction was announced by Harrison M. Lang, manager of the Malleable Iron Fittings Co. oil burner division and vice president and general manager of the new corporation.

The Branford Burner was designed by Forrester Hammer in the early 1900's and has been manufactured by the Branford company since the days of the steam-driven automobile.

The newly formed corporation which purchased the Branford Burner patents and trademarks will have its headquarters at 286 Howe Avenue, Shelton. The new company will also absorb the Derby Tank and Welding Company of Shelton. John M. Fudock will be president of the new corporation.

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A. W. HAYDON, Waterbury, has been elected a vice president of Consolidated Electronic Industries Corp., Jackson, Michigan. Mr. Hayden is president of the A. W. Haydon Division of North American Philips Co. in Waterbury, which has recently been purchased by Reynolds Spring Co.

The Reynolds firm and Stubnitz Greene Spring Corp. were merged to form the Consolidated Electronic Industries Corp.

★ ★ ★

THE RETIREMENT from active management of Oliver V. Ober, executive vice president of United Advertising Corp., New Haven, after 34 years of service, was announced recently.

Named to succeed Mr. Ober as general manager of the United's operations in New England, is Richard O. Gibbs, who joined the company in 1952 and was elected a vice president last October.

Mr. Ober has long held a position of prominence in the business and community life of greater New Haven. He joined United Advertising Corp. in 1920 from the position of advertising manager of the N. K. Fairbanks Co. He rose successively with United Advertising Corp. through the positions of sales manager, treasurer and vice president, to his present key position as executive vice president, which he assumed in 1952.

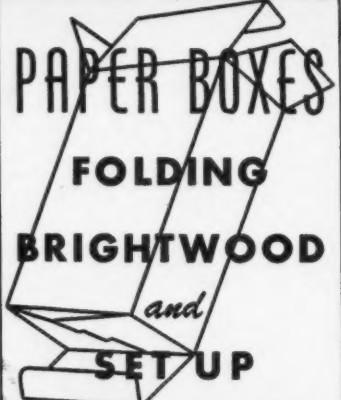
★ ★ ★

THE TORRINGTON COMPANY, a manufacturer of anti-friction bearings, industrial machine needles, swaging machines, precision metal products, bicycles and cycle parts, is currently investigating possibilities for diversifying its operations further, according to a recent statement by Walter C. Thompson, president. The firm operates ten plants in the United States, Canada, England and Germany.

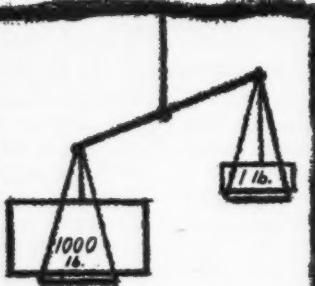
★ ★ ★

F. E. ENDRISS has been elected treasurer of Peter Paul, Inc., it was announced by John H. Tatigian, president. Mr. Endriss succeeds Harold G. Kazanjian, who has been elected executive vice president of the candy firm.

Mr. Endriss began his accounting career in 1917 with the Southern New England Telephone Company as an auditor. In 1918 he joined the Winchester Repeating Arms Co., New Ha-



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ven. He became affiliated in 1929 with the National Folding Box Co., a subsidiary of Federal Paper Box Co., and was accountant in charge of credit collections, later being elected as assistant treasurer and in 1951 as director and treasurer.

★ ★ ★

JAMES P. GANTLEY has been elected vice president and secretary of The Fenn Manufacturing Company of Newington, according to an announcement by W. L. Fenn, president.

Mr. Gantley joined Fenn in 1942 as comptroller and subsequently held the additional post of assistant treasurer. Prior to joining the Fenn Company he had been associated with the accounting firms of Price, Waterhouse and Company of New York and Hadfield, Rothwell, Soule and Coates of Hartford.

★ ★ ★

A NEW DEVICE for supplying beach heads and other confined combat areas from the air has recently been revealed by the U. S. Navy Office of Naval Research and the Kaman Aircraft Corporation, Bloomfield.

The device, which is known as a rotot chute, is being developed for the United States Marine Corps. It will permit supply aircraft to drop equipment and supplies from lower altitudes at higher speeds and with greater accuracy than is possible with a parachute. Parachutes must be dropped from relatively high altitudes and are subject to wind drift, making pinpoint landings difficult.

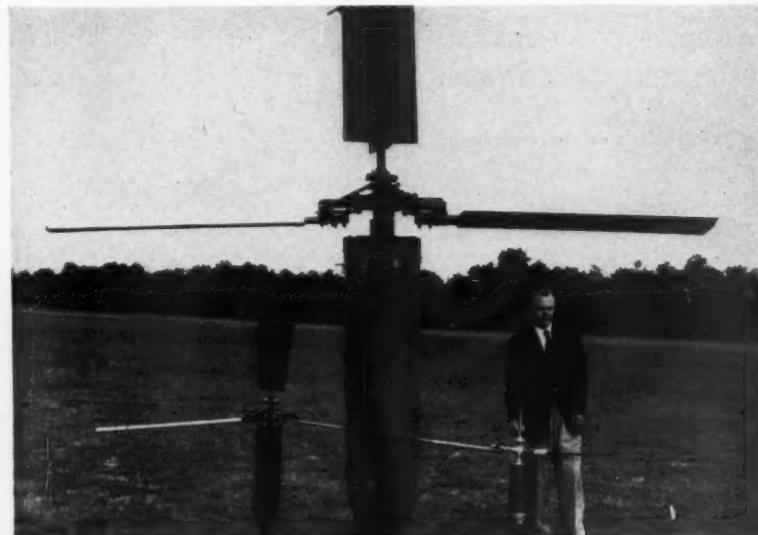
The rotot chute consists of two rotor blades attached to a hub, the entire assembly resembling the rotor of a small helicopter. The rotot chute in turn is attached to one end of a standard military M2 supply container, a type of container currently being used by the Marine Corps for supply drop by parachute.

Under contract with the office of Naval Research, Kaman Aircraft has made about 700 experimental rotot chute drops over the past several months. Current tests are with the actual M2 container fully loaded and dropped from low altitudes at high speeds by a Grumman F7F twin-engine Marine Corps fighter.

★ ★ ★

R. S. HOLMES, nationally known small arms ammunition authority, has been appointed manager of the research and development department of the arms and ammunition division of the Olin Mathieson Chemical Corp.

Mr. Holmes, who is the holder of patents on Western-Winchester shot shells, produced by the arms and ammunition division, came to New Haven in 1952 from East Alton, Illinois as manager of ammunition research.



DEVELOPMENT STEPS of the rotot chute for the Marine Corps by Kaman Aircraft are shown in this photo. In the center is a standard Military M2 air-drop container with a full-scale rotot chute attached. On the left is a one-third scale model; on the right a one-sixth scale model.

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He supervised the research and development on the new Western-Winchester magnum shot shell for standard shotguns, which was introduced only last August. The powerful new shell was designed to reduce crippling loss in the shooting of wildfowl.

★ ★ ★

MORE THAN \$80,500 in suggestion awards was paid to 1,700 Pratt & Whitney Aircraft employees during 1954, according to William P. Gwinn, general manager. It was the largest amount in the history of the company's current suggestion award program, which went into effect last March.

Awards last year ranged from the minimum of \$5 to the maximum of \$2,500, and involved a variety of improvements, from a major change in a jet-engine production operation to a change in an office filing system.

There were five maximum awards of \$2,500—the largest number in any single year of the program.

★ ★ ★

AT A SPECIAL MEETING recently,

stockholders of The Norden Laboratories Corporation approved a proposal for the integration of the business and property and assets of the corporation with Ketay Instrument Corporation, it has been announced by Paul W. Adams, president.

The integrated business will be conducted under the name of Norden-Ketay Corporation. Morris Ketay, president of Ketay will be president of Norden-Ketay and Mr. Adams will be executive vice president.

★ ★ ★

CHARLES H. COSTELLO, vice president and director of C. Cowles & Co., New Haven, has been elected a director of the National Association of Manufacturers.

Re-elected to the board of directors from Connecticut were Dexter D. Coffin, Sr., president and general manager, C. H. Dexter & Sons, Windsor Locks; Ralph A. Powers, president, Robertson Paper Box Co., Montville, and Richard L. White, chairman of the board, Landers, Frary & Clark, New Britain.

A NEW, eight-page booklet published by Waterbury Farrel Foundry & Machine Co., Waterbury, covers the company's line of tandem mills used for high speed reduction of non-ferrous and ferrous rod.

The bulletin, printed in two colors, includes many illustrations showing various sizes of WF tandem rod mills plus work samples and a cross-sectional reduction sequence. The text discusses the advantages of reduction by rolling and describes the function and application of the Farrel mills. Details are given of WF design and construction features which are factors in reducing operation costs. The payoff unit, straighteners, coilers and cooling method are discussed, in addition to the mill operation itself.

Free copies of this new booklet can be obtained from the company by requesting circular 729-R.

★ ★ ★

MAJ. GEN. KIRKE B. LAWTON, U.S.A., retired, has been elected a director of The Gray Manufacturing Company, producers of Audograph Soundwriter dictation equipment, PhonAudograph central dictation systems and specialized electronic communications devices, it has been announced by Walter E. Ditmars, president.

General Lawton was Commandant of Ft. Monmouth, N.J., from 1951 until his retirement in August. Prior to that time, he was assigned responsibility for presenting the Signal Corps budget to the appropriations committees of the Senate and House, from 1946 to 1951. He was Deputy Chief Signal Officer of the Army from 1948 to 1951.

★ ★ ★

BIG NEWS in the field of lockmaking was announced recently by the P. & F. Corbin Division of The American Hardware Corporation when the firm introduced a new line of redesigned and improved "900" series Unit Locks and Latches and in 13 functions.

The new unit locks are said to incorporate the revolutionary Corbin exclusive locking principle which made the older versions the first choice of discriminating architects and contractors.

The Titan, Crestwood, Knollwood, Windsor, and "900" Design have frames made of strong extruded brass metal. All internal parts are made of non-ferrous metal or zinc-plated, dichromated steel.

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STAMFORD, CONNECTICUT

THE APPOINTMENT of Frank J. Wandyes as plant superintendent of The Henry G. Thompson and Son Company, New Haven, has recently been announced.

Mr. Wandyes, a mechanical engineer, became associated with the Thompson organization to redesign new machinery and make changes in the manufacturing process which would assure improved product quality. His success in this field led to his appointment as assistant plant superintendent, the position he held prior to assuming his present post. Mr. Wandyes' new duties include responsibility for plant production, maintenance and labor relations.

★ ★ ★

A VERSATILE new hydraulic marking machine for universal use on virtually every material and contour has just been introduced by The Parker Stamp Works, Inc., Hartford.

The Parker #650 marking machine is said to cleanly, indelibly stamp lettering trademarks, knurling, graduations and other legends on flat, concave or convex surfaces with speed and ease. Production marking of hun-

dreds or thousands of pieces is possible in less time, with more precision than conventional hand stamping.

Parker engineered features such as a foot pedal which allows operator the use of both hands, cushioned hydraulic pressure to eliminate contact shock on marking tools, and simplified controls make the #650 easily operated even by unskilled hands.

★ ★ ★

THE GRAY MANUFACTURING COMPANY, Hartford, is developing new products designed to improve internal security in industrial plants and military facilities, it was recently announced by Walter E. Ditmars, president. He also announced the appointment of Howard M. McCoy as manager of the program. Mr. McCoy is a recently retired Air Force Colonel and former director of the Physical Security Equipment Agency of the Department of Defense.

"The new equipment which Gray is developing will permit those industrial plants and commercial facilities which maintain their own guard forces to perfect their internal security against sabotage, arson, burglary, and other

types of casualty losses resulting from unauthorized entry," according to Mr. Ditmars.

★ ★ ★

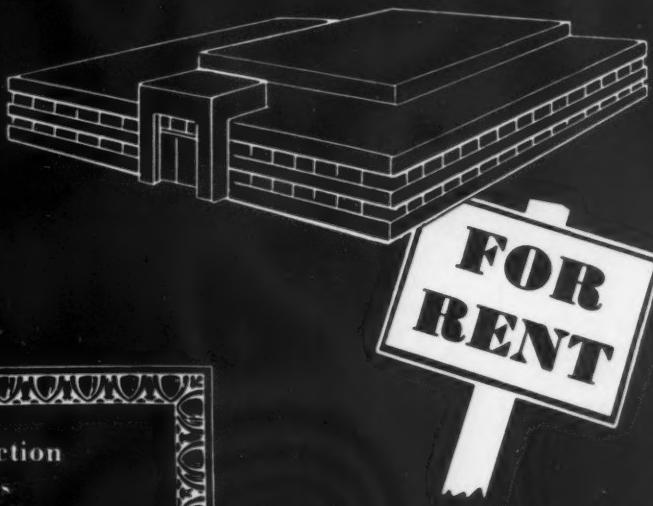
CONSTRUCTION WORK is nearing completion on an expansion of the manufacturing plant of The Bristol Company, Waterbury. Heat treating facilities at the plant have also been increased to process a much larger volume of instrument parts and socket screws.

In addition to manufacturing facilities, an expansion in office space is being carried out to provide added room for the engineering and research departments.

★ ★ ★

THE AMERICAN BRASS COMPANY, wholly-owned subsidiary of Anaconda Copper Mining Company, will soon construct an integrated aluminum mill on the outskirts of Terre Haute, Indiana, according to a joint announcement issued recently by Anaconda president, Robert E. Dwyer and Arthur H. Quigley, chairman of the board of The American Brass Company.

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fications and on a site
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"The Terre Haute fabricating facility will be a logical extension of Anaconda's already announced entry into the aluminum field," the statement said. "In 1953 the Anaconda Aluminum Company started construction of a new aluminum reduction plant at Columbia Falls, Montana. Eventually this plant

will attain an annual production of 60,000 tons of ingot aluminum."

At Torrington, the American Brass Company has been producing relatively small quantities of aluminum sheet and strip for the past few years.

James F. Ackerman, currently serving as vice president of The American

Brass Company's Torrington plant, will be in charge of the new aluminum fabricating operation at Terre Haute.

★ ★ ★

A NEW DESIGN in the simulation of high altitude conditions has been incorporated in a new chamber recently delivered by American Research Corp., Bristol to the Aeronautical Division of Minneapolis-Honeywell Regulator Company.

The chamber utilizes radiant heating and cooling from the five walls and the door in addition to the normal method of heating the air. By this means radiant heating and cooling is provided at all altitudes up to 130,000 feet.

QUALITY WELDMENTS



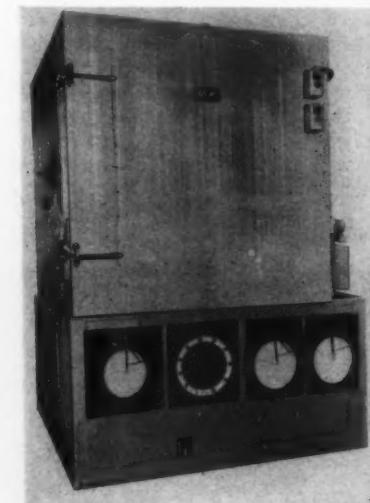
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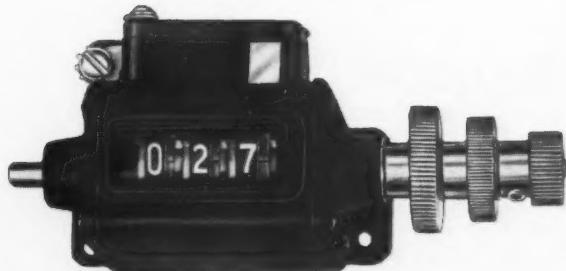
THIS CHAMBER provides a 24 cu. ft. work space and can reproduce relative humidity of 5% or less within a range of 160° to 200° F.

The special feature of the chamber is that by means of a thermocouple switch the control point of the temperature may be changed from the surrounding air at or near sea level to the wall radiation at high altitudes, thus exactly reproducing the conditions encountered by instruments and other gear where air is virtually non-existent.

★ ★ ★

THE ELECTION of John C. Molinar as vice president and general sales manager of Niles-Bement-Pond Company, West Hartford, has been announced by A. H. d'Arcambal, president and general manager. Mr. Molinar will be responsible for the sales activities of the company, both domestic and foreign. He will also direct

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Commenting on Barney's installation of Portable Partitions, Malcolm D. Eddy, Director of Purchases at Gray Mfg. Co. says, "Thanks to Barney's, we now have achieved a set-up that gives us maximum flexibility . . . in our engineering department". Ask Barney's to show you how Portable Partitions can serve your needs.



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the activities of the advertising and market research departments.

Mr. Molinar entered the employ of the company in 1922 as a sales trainee, immediately after his graduation from the Massachusetts Institute of Technology as a mechanical engineer.

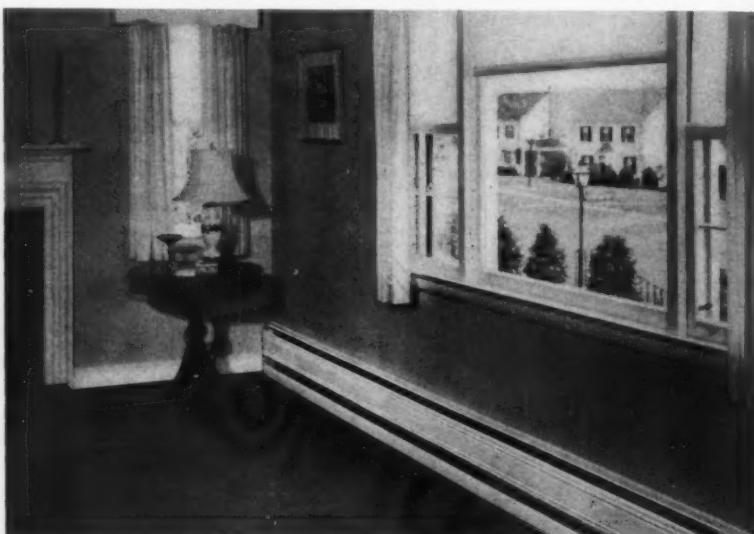
Mr. d'Arcambal also announced that James D. Allan, manager of domestic machinery sales of Pratt & Whitney will direct the machinery sales of all divisions of the Niles-Bement-Pond Company.

★ ★ ★

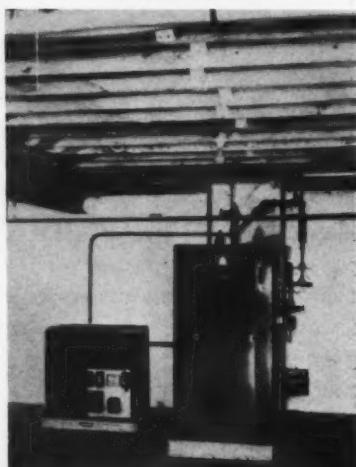
A YEAR-ROUND integrated baseboard heating-cooling system has been

announced by Gordon Bennett, executive vice president of The Vulcan Radiator Company, Hartford, pioneers of fin-tube baseboard radiation in America. This central "home-conditioning" system introduces a new concept in air conditioning and promises to set a fast pace for the industry during 1955, according to the company.

Mr. Bennett pointed out that Vulcan's new development is the latest and most spectacular advance in year-round "home conditioning" yet produced by the hot water and steam heating industry.



VULCAN BASEBOARD "home conditioning" combines the finest elements of interior design and functional beauty.



HEATING and cooling facilities take up little room in the basement. Flexible ducts and blower are located overhead.

The new system has been integrated with Vulcan's line of baseboard radiation so that by a flick of a switch the home owner can command either warm or cooled air from the same baseboard installation. A slow air circulation affords a minimum amount of drafts and provides a blanket of cool or warm air over entire wall areas as seasonal requirements demand.

★ ★ ★

THE DOLAN STEEL COMPANY, one of the largest warehouses in New England supplying sheet and strip steel exclusively, was recently presented with a certificate of recognition by General Motors Corporation.

The occasion for the citation was the production of General Motors' 50 millionth car at the Chevrolet Assembly Plant, Flint, Michigan in November.

The certificate was presented to the Bridgeport firm for "its contribution to and membership on a production team responsible for . . . the building by General Motors in the United States of fifty million motor vehicles."

★ ★ ★

SUCCESSFUL RESULTS with a powder that speeds the action of acids for dissolving defective chromium and nickel from copper base metals without injuring the base metals were disclosed recently by Enthonic, Inc., New Haven.

The announcement was made shortly after the receipt of a patent issued to the inventor, Dr. Walter R. Meyer of Hamden, president of Enthonic, Inc.

The new patent, U. S. Patent No. 2,698,781 is titled "Accelerating Action of Acids on Metals." The products sold under the patent are designated on the market as Enstrip "S" and 1658.

★ ★ ★

THE NEW HAVEN COPPER CO., Seymour, has announced a \$1,000,000 expansion program which will include the construction of two new factory buildings and modernization of present facilities.

An additional 25,000 feet of manufacturing space will be afforded by the new buildings where production will begin in the fall, it is planned.

The firm is a wholly owned subsidiary of the Tennessee Corp. of New York City.

★ ★ ★

W. D. MACDERMID, president of The W. D. MacDermid Chemical Company, Bristol, has announced that arrangements have been completed with Lawrence Smith & Co. Pty., Ltd., of Sydney, Australia on a license royalty basis whereby the Australian firm will manufacture MacDermid Chemical Company formulations and handle their distribution and sales to the metal finishing industry in Australia and New Zealand.

★ ★ ★

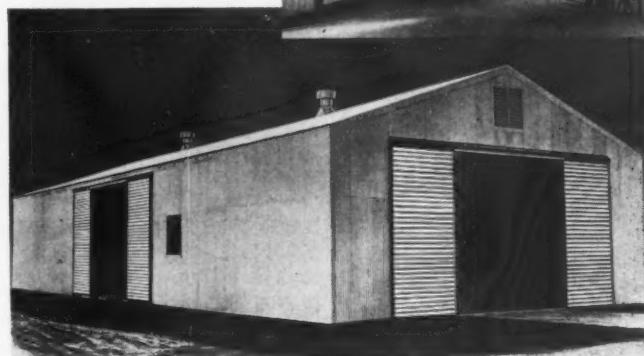
F. L. MORROW, president of North & Judd Mfg. Co., New Britain, has announced the purchase of the spot and spot setting machine business of the Milford Rivet & Machine Co., of Milford. North & Judd has been for many years one of the leading manufacturers of spots.

Spots are described as the metal or-

Announcing

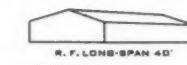
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R. F. LONG-SPAN 40' MULTIPLE



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naments used to decorate such items as dog collars, children's western style belts and holster sets, men's and ladies' belts, shoes and related items.

The manufacture of cold-headed fasteners, in the billions, and rivet-setting machines, constitutes the principal operation of the Milford company. Sale of the spot business, according to President Fred H. Merwin of the Milford firm, will give his company space for new product development in the fastener field.

★ ★ ★

DR. MAX A. GELLER, chief officer of the New Haven Clock and Watch Co. since 1950, has resigned his positions as chairman of the executive committee of the board of directors and as chief executive officer of the company.

Announcement of Dr. Geller's resignation was made by John M. Bergen, chairman of the clock company's board of directors.

★ ★ ★

TWO TOP EXECUTIVE PROMOTIONS have been announced by Joseph S. Miller, president of the New Haven Board & Carton Co.

Julian H. Morgan was advanced to vice president from serving concurrently as treasurer, controller and secretary. William R. Tittle was named secretary. He was assistant treasurer.

★ ★ ★

EDWARD V. McDONOUGH, manager of cost accounting at Pitney-Bowes, Inc., has been appointed comptroller effective April 1, it has been announced by Harold Camp, vice president for finance. Mr. McDonough succeeds Frank H. Van Duzer who has resigned to become comptroller of Daystrom, Inc., of Elizabeth, New Jersey.

Mr. McDonough joined PB as a war work accountant in 1942, has supervised the payroll department, directed job evaluation in the personnel department, and served three years in planning and scheduling before becoming manager of cost accounting four years ago. He recently earned a master's degree at Columbia University Graduate School of Business.

★ ★ ★

THE ARMSTRONG RUBBER COMPANY of West Haven has announced a new unconditional road hazard lifetime guarantee against stone

bruises, blowouts, rim cuts and any and all road hazards without limit as to time or mileage for all Armstrong passenger tires.

According to the terms of the guarantee, the company will replace every tire covered by the guarantee with a new tire of like size and type on a pro rata basis. The customer receives credit for the unexpired normal life of the tire as determined by the depth of the original non-skid tread design remaining on the tire.

The new guarantee replaces the company's previous ones of eighteen, twenty-four and thirty-six months for certain types of passenger tires.

★ ★ ★

A SUGGESTION PLAN has recently been put into effect by the R. Wallace & Sons Mfg. Co., Wallingford, according to an announcement by E. B. Danzell, vice president, and also chairman of the Wallace Suggestion Plan Policy Committee. Most employees who are not supervisors will be eligible for cash awards. Winning ideas must be put into effect by the company before an employee receives his check.

Mr. Danzell said "The success of a business and the security of its employees are based upon a continuing flow of ideas. These ideas may result in improved products, reduced costs or better working conditions, but they all have one thing in common—each contributes to the stability and soundness of the business."

★ ★ ★

AN EFFORT to determine the needs of area industries and to develop industrial potential and employment has been undertaken by the Stamford-Greenwich Manufacturers' Council, it has been announced by Malcolm P. Taylor, chairman of the Council.

Consideration will be given to expansion needs of certain industries and the problems of re-employment of workers. The Executive Committee of the Council has approved a four-point program of positive action in exploring industry problems. This program will include four major elements:

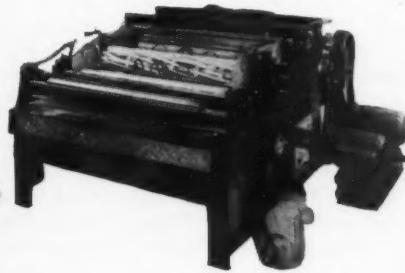
A survey of local companies will be made in order to determine their needs for more plant space and to disclose whether or not other industries are outgrowing their facilities and are unable to find adequate accommodations in Stamford.

A program of full employment will be undertaken and every effort made

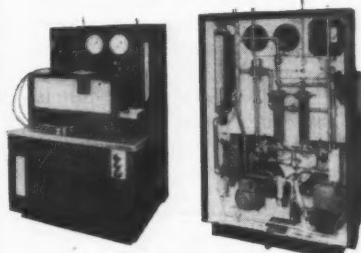
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to work with member companies in the placement of the unemployed.

The Council, in cooperation with the Chamber of Commerce, will do everything possible to attract new industries to occupy plant space that is now vacant, and will also continue to procure and assist new companies which are attracted to the community.

A special committee will be appointed to explore factors vital to industrial development and operations. The committee will undertake a study of area taxes and will make a comparison of taxes in other communities comparable to Stamford. The committee will also study the apportionment of land now available for industrial use, uses being made of industrially zoned land, and the zoning regulations that apply to industry.

**The Acme Wire Co.
Fifty Electrifying Years**

(Continued from page 9)

fighter planes. Acme produced many other coil windings which were vital

to war equipment such as the coils for the electrically fired bazooka and certain coils used by the Navy in torpedoes.

Shortly after World War II Acme introduced a molding process for treating coil windings that has revolutionized this branch of the industry. This is known as the "ACME-MOLD" process whereby coils are completely impregnated and externally covered with special 100% solid insulating compounds of Acme's own development. ACME-MOLD coils have superior performance, operating life and constant uniformity of dimensions. Several million ACME-MOLD coils have already been produced.

Today the quality of Acme coil windings and the services of Acme's expert coil technicians is well-known in the electrical industry. Every year millions of windings are sold for automotive spark coil replacement, magnetos for small auxiliary gasoline engines which drive such things as power lawn mowers, outboard motors and lighting plants, transformers for oil burners and Neon signs, electric valves for washing machines and soft drink

dispensers, solenoids for electrically operated circuit breakers, switches and motor starters. These are just a few of the many applications for coil windings.

VARNISHED INSULATIONS. In 1921, the manufacture of another Acme product was begun, namely, varnished electrical insulations and varnished cambric cable tape. The use of motors and appliances had been increasing steadily and had created an increasing demand for varnished cotton cloth or cambric, varnished silk and varnished paper, which were and still are used in these appliances as insulation. Varnished cambric slit into tape, was being used in growing quantities as insulation for larger power cables. The baked varnish films which are put on in a multiple number of coats in a continuous process are excellent insulators and withstand high voltages. Varnished paper one thousandth of an inch thick, for example, will withstand approximately two thousand volts. Papers as thin as five ten-thousandths of an inch thick are coated with varnish and one of the heaviest materials normally coated is

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warehoused
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MOLTRUP'S "plus tolerance" in the making of rectangular shapes gives an accuracy unique in commercial production. Instead of minus tolerances, MOLTRUP tolerances are all plus — a feature of vital importance in using cold drawn flats for precision parts. These flats will clean up more quickly. What's more, MOLTRUP flats have a fine surface finish with absolutely parallel sides. They're practically free from concavity — have sharp corners, true straightness and are available in standard stock sizes. Ask to be put on the mailing list for Hawkrige's Monthly Stock List of Machinery Steels.

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SOUTHBURY — TORRINGTON**

canvas, forty-two thousandth of an inch thick. When Fibreglas cloth became available, rolls of this material also were coated with varnish. This is an important product which is used as electrical insulation where the electrical equipment is to be subjected to unusual heat.

ELECTRICAL INSULATING VARNISHES AND COMPOUNDS. Acme had been producing its own insulating varnishes for many years and from the experience thereby gained, decided in 1946 to offer its complete line of electrical insulating varnishes to the electrical manufacturers. Large quantities of varnishes are used by electrical manufacturers in treating the windings of electrical equipment. It is a specialized field and today Acme offers its customers an extremely wide variety of high quality electrical insulating varnishes of several different types and grades.

Acme also produces and markets the special insulating compounds mentioned in connection with ACME-MOLD coils. This remarkable product is the result of a long range development program which began long before World War II. The culmination of this research is Acme's present line of impregnating and potting compounds. These are solidified and cured by the application of heat and in their cured form can be varied from a soft, resilient or sticky condition to one that is nearly as hard as glass. Available, also, are low exotherm, room temperature curing mixtures or heat reactive materials with excellent sealing and bonding qualities. These products are known as various mixtures of Acme Star Compound. They are not cut with thinners but are 100% solids and so the interior of coil windings can be filled completely, leaving no voids or air pockets. In the same operation a tough layer of compound is formed around the exterior of the winding which provides complete protection.

Coils treated with Acme Star Compounds are ideal for operation under adverse conditions such as in mines where considerable moisture and, at times, even acids are encountered under unusual hot or cold conditions. Spark coils treated with Acme compounds, but without any other protection, have operated after continuous immersion in water for three years. Certain compounds will not crack after being heated at 212° F. for one hour and then cooled immediately to minus

Increase Your Product's "SELL" with Castings by FRITZELL



You can improve your product's sales, and performance after sales. Yes, you can help its ability to sell with castings by FRITZELL; porosity-free, uniform in mechanical and structural strength batch after batch; castings that give your customers satisfaction long after your sale is closed!

Many of America's finest products

are made with castings by FRITZELL. Why not trade on this experience to make *your* product better?

Fritzell's ability to make intricate, sand-molded castings since 1916 has earned the reputation "If nobody else can make it, send it to Fritzell." Improve *your* product's "SELL" with quality castings by FRITZELL!



WRITE or PHONE for further information. Pattern facilities available.

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SINCE 1916
Foundry & Casting Co.

BRASS, BRONZE & ALUMINUM CASTINGS
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It is remarkable how speaking over a DuKane office and plant paging system gets things done at once. No rushing to and fro. Makes your administrative job much easier.

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SOUND SYSTEMS →

for OFFICE and PLANT PAGING

Let us show you how a DuKane console or rack panel model can accommodate from 15 to 180 rooms. Ask for a free demonstration of these UL approved units.

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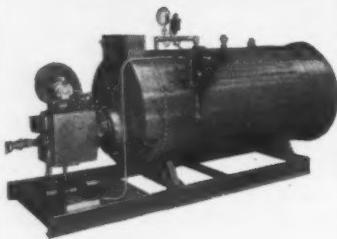
One company (name on request) saved \$6,000 annually in time-keeping and production control alone, with Flexifone Intercom. Why walk? Just point your finger and talk! For a cost-free demonstration, write.

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THE INSIDE STORY



**ECLIPSE SUPER-MATIC
SCOTCH "STEAMBOILERPLANTS"
GIVE YOU GREATER EFFICIENCY
AND CAPACITY BECAUSE—**

- ... heating surface is larger
- ... steam space is larger
- ... combustion area is larger
- ... water storage is larger

Let us give you the complete story
on this finest-quality boiler.

ETTER ENGINEERING CO.

P.O. Box 1944
New Haven, Conn.

100° F. for one hour, with this cycle being repeated five times. Acme Star Compound has passed the very rigid tests of the various branches of the Armed Forces covering compounds for treatment of military electronic components. Compounds have now been developed for operation at 300° F. Coils treated by regular methods could not possibly stand up under such operating conditions. The use of Acme compounds for treating various coils and transformers has therefore spread tremendously in a short time and is continuing to grow rapidly.

Sales Organization

Although The Acme Wire Company's products are allied as far as usage is concerned, they differ in many ways—method of production, application by customer, pricing, etc. They are all highly specialized. To give their customers the prompt and efficient service they deserve, Company engineers and sales personnel must have considerable technical training and experience. Since each product has its own peculiar situation, there is an individual sales manager at sales headquarters in New Haven who has responsibility for each product and who handles matters pertaining to it with customers and sales offices. As far as distribution and customer service are concerned, one might say that each is a separate business or division.

Acme's sales offices are located in the centers of electrical manufacturing areas. From these offices salesmen and representatives cover their territories, calling upon customers and prospects.

Some are company employees and others are Manufacturers' Agents who sell for more than one company, and represent several non-competing products. Certain sections of the country have a heavy concentration of electrical manufacturers. To serve properly the users of all Acme products in these sections requires the complete time of the salesmen. It is in these areas that direct employees are used.

In other sections, the electrical manufacturers are on the whole larger and fewer in number and the salesman can usually handle such a territory for more than one company. In such areas Acme uses Manufacturers' Agents.

Due to the nature of its products, which are semi-finished raw materials, direct sales to the Government for defense purposes have been comparatively small. Such contracts as are received are usually negotiated by the New Haven Office directly with the Armed Services branch involved.

There are three groups to whom the Company's service has always been dedicated—its Customers, its Stockholders and its Employees. The success attained with these groups is the measure of the Company's success.

To its Customers—many of whom have been with the Company for much of its history—it has dedicated its efforts to maintain standards of dependable high quality, to deliver products when they are needed and at fair prices.

The continued confidence of Acme's Stockholders has been an essential element of its success. These thrifty people who have invested their savings and who own the Company are entitled to a fair return upon their investment. It has always been the Company's aim to so conduct its affairs in a sound conservative manner in order that they may receive the dividends to which they are entitled.

To its Employees—the Company's greatest single asset—it has dedicated its efforts to provide the steadiest possible employment and to add as much as possible to their future security. Acme management wants their work to be done under the best possible working conditions. Fairness is considered essential. An interest is taken in personal problems. The happiness and pride of workmanship by Employees is considered vital to Acme's success.

Acme's dedication in the years ahead will continue to be to Customers, Stockholders, and Employees.

SEARCHING . . . for a container to ship most anything, anywhere, with safety, economy and merchandising power? Call

JACK WITTSTEIN
Box 1348, 56 Church Street
MAin 4-5121, New Haven 5, Conn.



On Their Way and Moving in the Right Direction

What happens to our young people after they finish high school? Are they getting all the help they need to choose the right vocation—the proper college course?

Do they feel that the most fertile pastures are in Connecticut, or that the grass is greener elsewhere? Do they know what future our industries can hold for them?

Throughout Connecticut, sophomores in our high schools are receiving constructive help in making a career choice, through study and discussion of a new guidance booklet, "There's A Career For You In Connecticut Industry".

In it, men and women in Connecticut plants describe their particular fields—the training needed, the duties performed, the rewards. Right now, when sophomores are deciding their future study courses, this publication has particular guidance value.

The four electric companies sponsoring this publication take pride in sharing a place in this vital effort of helping to direct Connecticut youth toward a promising future. Connecticut's tomorrow depends so strongly on the preparedness of Connecticut's youth today.

THE CONNECTICUT LIGHT AND POWER COMPANY
THE CONNECTICUT POWER COMPANY
THE HARTFORD ELECTRIC LIGHT COMPANY
THE UNITED ILLUMINATING COMPANY



PUBLIC RELATIONS

BY A. F. KACYNISKI

Public Relations Director

Communication of Ideas

To deal with people requires the communication of ideas. This is a two-way project. The executive cannot possibly put across his ideas unless he knows what ideas are already in the minds of his workers—ideas which may clarify or confuse, help or hinder. Workers must understand what management is trying to do before they can be counted upon for enthusiastic support.

This means that management must have crystal-clear in its own mind just what is to be attempted, or the results will be confusion and frustration. Napoleon wrote to one of his generals: "You will so manage that the Spaniards may not suspect the course I intend to pursue. This will not be difficult, for I have not fixed upon it myself."

★ ★ ★

Four Virtues

There are many virtues, but four

are of leading importance to the person seeking to live and work successfully with people. They are consistency, sincerity, courtesy and friendliness.

Leadership has been written about for thousands of years, and scores of books are published every year giving advice about how to become and remain an executive. Yet in all these years and wordy advice no substitute has been found for these four virtues: Consistency, sincerity, courtesy and friendliness.

★ ★ ★

One Thing Leads To Another

When a new manufacturing plant opens there is a net addition to income flow in the community. The new payroll dollars roll into the cash registers of the local merchants, into the coffers of the banks, and the economy expands

Usually, this expansion is reflected in general community growth with

increases in population, school enrollment, and all the rest. A recent study of the effect of industrialization in counties in different states over a ten-year period brought out these findings:

An increase of 100 factory jobs created 74 jobs in other lines of work; 112 more households were established; 296 persons were added to the population; 107 new car registrations were reported; 70 new telephones were installed; 4 new retail firms were set up; retail sales increased \$360,000 a year; personal income increased \$590,000; bank deposits rose by \$270,000.

This is an aspect of community development that is not fully appreciated, yet it is the essence of economic health and growth. When telling the business story, manufacturers could improve their community public relations if this kind of graphic information was known about their own community.

★ ★ ★

Telling the Business Story

Employees rate employee letters near or at the top of the scale in popularity and acceptance. Popularity and acceptance, however, will coincide roughly with the regularity with which letters are received, the candor with which they discuss issues, and the level of management from which they originate. Employee letters are relatively inexpensive and can be used by any size or type of business as an excellent communication medium. Employers can step-up their public relations efforts through this means of communication both to their employees and in the community in which they operate in telling their business story.



Employees of Walters Business Forms and three employees not included in the photograph represent

135 Years of Experience

In the Production of Manifold Business Forms For Connecticut Industry and Business
Skilled and rapid assistance in designing forms to meet special needs, and round-the-clock production operations on the most modern, high-speed lithograph equipment guarantee our motto of

PROMPT DELIVERIES AND CUSTOMER SATISFACTION AT MODEST PRICES

612 Capitol Avenue, Hartford **WALTERS BUSINESS FORMS, INC.** Telephone CHapel 6-6881

"I gain 2 hours a day"...so can you!



When Joe was home or on the road, he'd work till late at night • To write out all his letters, orders, memos—what a fight it was, till Hal, his lawyer friend, said, "Try instant dictation • With Dictaphone TIME-MASTER*—best machine in all the nation.



"Pick up a mike and think aloud." Joe did—and bought TIME-MASTER • Now he uses it everywhere—works better, easier, faster • And once work's said, he knows it's right, 'cause typists can't mistake his words on *Dictabelt*, the plastic record that can't break.



He mails the belts just like a letter. They're feather-light and clear • The office listens to reports without phone tolls to fear • Dictaphone TIME-MASTER saves so much in work and dough • The boss equipped all of his staff to communicate like Joe.



So that's how Joe gets more work done—and gains two hours a day • Plus money, too. And so will you. We'll prove that it will pay for *you* to use TIME-MASTER in most any job you fill • Take a free desk trial—and start to make the most of *all* your skill.

*The complete name is the Dictaphone TIME-MASTER Dictating Machine.

DICTAPHONE...FIRST IN SALES AND SERVICE OF DICTATING MACHINES THE WORLD AROUND



Try the Dictaphone TIME-MASTER Dictating Machine on *your* job. Just call or write your local Dictaphone sales and service representative. Or write Dictaphone, Dept. 00, 420 Lexington Avenue, New York 17, N. Y.

The plastic *Dictabelt* record—unbreakable, mailable, filable and exclusively Dictaphone's.

DICTAPHONE TIME-MASTER DICTATING MACHINE

DICTAPHONE, TIME-MASTER AND DICTABELT ARE REGISTERED TRADE-MARKS OF DICTAPHONE CORPORATION

Industry Forums Tell Community A Story

The West Torrington Men's Club Industrial Forum uses a little dramatics to tell the local industry story. Movies of local plants and employees of firms are shown as a representative of a firm speaks on the company's products and its past, present and future. Firms who have appeared on previous forums are the American Brass Co., Warrenton Woolen Mill; Colonial Bronze Co. and the Torrington Co. Scheduled to tell its story in February was the Hayden Manufacturing Co.

★ ★ ★

Step Right Up To Be Counted

Members of the Administrative Committee of General Electric in Bridgeport reported that GE employees gave a sum of \$35,366 to the Community Fund because they had the facts first. Convinced by the evidence of need, GE employees stepped right up to be counted. Sixty percent of all employees increased their individual contributions. More than 100 new

members joined, bringing total participation to 87.3 per cent, the highest since the one-for-all plan for giving was established.

★ ★ ★ Business Beware

Elmo Roper conducted a survey six years ago to find out which groups were thought to be doing the most good for the nation—religious, business, government, congressional or labor. Business got 20 per cent of the votes, second only to the religious category (34 percent). But when Roper ran the same survey last year, business had slumped from 20 per cent to 10 per cent, while the religious groups rose to 40 per cent and government jumped from 11 per cent to 18 per cent. On the question of who was doing the least for the country, business, which received only 6 per cent of the votes in 1948, got 9 per cent in 1953.

So the time has come for business to do something effective to reverse the trend of growing antagonism. Business, which can so successfully apply the physical sciences to problems, must

recognize the worth of social sciences as well. By the efficient application by industry of the specialized skills of engineers, scientists and researchers, Americans enjoy the highest material living standards of any nation. But until industry uses the skills of public relations with equal efficiency to interpret the role of industry as the real social worker in our midst, it will continue to be the unpopular "whipping boy" in the mind of the general public.

★ ★ ★

Announcing Employee Retirements

To give longer life to announcements of employee retirements, why not try the plant bulletin board preceding their publication in the employee magazine. The aim is to distribute in advance of the magazine more information about the employee. Each month companies can feature on their bulletin boards a picture and biography of an employee scheduled to retire in the coming year.

When Heat Treating Stainless Steels

A large new plant, ultra-modern equipment*, fast service, plus an interested "know-how" staff make Sargent & Wilbur stainless steel heat treating services worth money to you.

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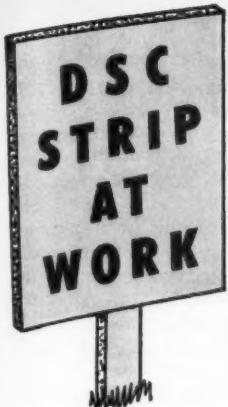


"KNOW-HOW"

makes the difference!



- BRAZING
- ANNEALING
- HARDENING



(ACTUAL EXAMPLE)

THE PART

Chrome Plated
Auto Grille Unit

THE STEEL

218,000 lbs. 21" x .036"—Soft Temper, No. 2 Reg. Bright Finish
BLANK SIZE, 21" wide x 36" long

PRINCIPAL OPERATIONS

Blank, Draw, Restrike and Trim
THE JOB-RUN.... 27175 pieces
THE YIELD..... 27055 pieces
THE TIME..... February 1955

JOB PERFORMANCE 99⁵⁶/100%

In citing this one example, we're not saying that DSC STRIP will give you the same near-perfect performance every time. We do say that over the long run, our product consistently meets or beats established standards for strip performance.

We invite you to test our 33 years of successful stripmaking experience. We know what our product can be expected to do when the tools, the job and the steel are properly mated.

Let's talk over some of YOUR nearby requirements. Just call your nearest DSC Customer Representative.



DETROIT STEEL CORPORATION

GENERAL SALES OFFICE — DETROIT 9, MICHIGAN

DSC CUSTOMER REPRESENTATIVE OFFICES

Chicago, Cincinnati, Columbus, O., Dayton, O., Detroit, Grand Rapids, Mich., Hamden (New Haven), Conn., Indianapolis, Jackson, Mich., Louisville, Ky., New York, Richmond, Va., St. Louis, Toledo, Worcester, Mass.

YOUR GUIDE TO DSC MILL PRODUCTS

- Hot Rolled and Cold Rolled Sheets
- Cold Rolled and Hot Rolled Carbon Steel Strip
- Cold Rolled High Carbon Spring Steel
- Low and Medium Carbon Manufacturers' Wire
- High Carbon Specialty Wire
- Aluminum Cable Strand Reinforcement
- Rope Wire Tire Bead Wire Welded Fabric

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Like our mill people, we in Reliance also work to supply steel that meets your job requirements.

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COLD ROLLED STRIP — Coils Cut Lengths All Tempers
SHEETS — Cold Rolled Hot Rolled Pickled
Galvanized Long Terne

Standard or Production Sizes
Sheared or Slit to Actual Working Dimensions





TRANSPORTATION

By EDWARD M. MAMULSKI
Traffic Manager

Sea-Land Transport Service Proposed

THE McLean Trucking Company filed an application with the Interstate Commerce Commission seeking approval for the establishment of a coordinated land and water system of transporting truck trailers on specially designed ships to operate between ports on the Atlantic seaboard. Under this proposal McLean plans to merge with S. C. Loveland Co., Inc., a steamship and tug-and-barge water carrier of Philadelphia, Pa.

The ports of Wilmington, N. C., or Charleston, S. C. and New York City and Providence, R. I. are being considered for the initial service. If permission is granted by the Commission and should business conditions warrant additional service, other terminals under consideration are: Jacksonville, Fla., Philadelphia, Pa., and Newark, N. J.

A 33-hour schedule between Wilmington, N. C., or Charleston, S. C., and New York City is planned. It will require about 7 hours additional time to reach the port of Providence, R. I. from New York City.

To the shipping public this would mean a lower cost land-water trans-

portation service and a door-to-door motor freight service. Delays of loading or unloading in the port areas would be greatly lessened because the entire trailer would be handled from the ship at one time. It is estimated that about 240 trailers could be unloaded in about 4 hours as compared to 60 hours for the normal unloading time of regular cargo from the conventional coastwise vessel which has five hatches and a capacity of about 5,000 tons.

The decline in coastwise commerce after World War II is due largely to the great increase in terminal costs of water carriers. The proposed service would mean less out of pocket costs for handling cargo at the port areas and less time in port for the vessels which should ultimately result in considerable savings to the operators.

McLean may publish separate tariffs of rates and charges covering the land-water service. Under the proposed land-sea operation McLean would participate in joint through rates and make this same arrangement available to competing motor carriers.

If this proposal is approved by the Commission McLean plans to purchase four specially designed ships from the Bethlehem Steel Company at an estimated cost of 8½ million dollars each. These ships would be about 650 feet long, would carry about 240 trailers, and be capable of a speed of 20 knots per hour. Each ship would have two enclosed trailer decks for loading or unloading trailers which could be accomplished simultaneously by using a double deck adjustable loading ramp. The vessels would carry about 3,500 net tons of payload cargo.

The construction of terminal facilities to accommodate up to 1,000 trailers for the principal terminal areas is contemplated. On November 2, 1954, the voters of Providence, R. I. approved a \$2-million dollar bond issue for the financing of terminal and other facilities for the sea-trailer service. A terminal including a double deck loading ramp and other port facilities would be built by the city of Providence. Under this plan the city of Providence would lease the facilities to the McLean Trucking Company.

Hearings relative to this proposal began in May, 1954, and were concluded in October of the same year. Approximately 130 witnesses appeared on behalf of the McLean interests, most of whom were shippers from along the Atlantic seaboard.

The Secretary of Agriculture, The Federal Maritime Board, the Department of Defense, the Port of New York Authority, the Shippers Conference of greater New York, the Jacksonville Traffic Bureau, the Chamber of Commerce of Charleston, S. C., and many others favored this proposal.

Representative Chatham of North Carolina said that McLean should be "publicly commended for the vision, courage and sound planning that have been displayed in the presentation of its land-sea system of transportation for the improvement of service to the public, to the government, and to the country."

About twenty nine railroads and several trucking companies objected to this proposal.

The McLean Trucking Company was founded in 1934 by Malcolm P. McLean. They have 37 terminals extending from Boston, Mass., to Atlanta, Ga. At the present time they are conducting highway operations in the following states and the District of Columbia; Conn., Del., Ga., Md., Mass.,

THE PLAINVILLE ELECTRICAL PRODUCTS CO.

PLAINVILLE, CONN.

MACHINE TOOL CONTROL PANELS

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NEMA and JIC Specifications

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Commercial, AIEE and Military Specifications

N.J., N.Y., N.C., Pa., R.I., S.C., and Va. Under the proposed arrangement shippers would have their choice of routing shipments over the faster land service routes or the slower land-sea routes.

McLean is awaiting the Commission's decision before authorizing the construction of ships and the necessary port facilities.

Birthday for Cellu-san

(Continued from page 10)

city tests conducted by an independent biochemical laboratory showed Cellu-san to be absolutely safe to use. The practical considerations of applying Cellu-san and handling treated containers were exceptionally favorable in all respects since it can be dipped, sprayed or brushed, and is available as a liquid concentrate which can be diluted right at the treating site. Many packers have reported success in applying Cellu-san to viner canvas which is used in hulling operations in the field. The treated canvas stays cleaner, free from sludge and litter, prevents breakdowns during harvesting, and greatly reduces end-of-season maintenance.

Recognition and Growth

Ample time has elapsed since all of these tests were conducted for the product to prove its worth under actual conditions in the field. Under the guidance of Frederick D. Houghton, Manager, extraordinary progress has been made in developing sales so that today, the country's leading canners, growers and packers . . . Heinz, Campbell's, Hunt, Libby's, Snow Crop, Pictsweet, B & M, and Seabrook Farms, to name just a few . . . use Cellu-san treated field boxes, hampers and baskets.

Endorsed highly by The National Wooden Box Association, Cellu-san's uses have expanded to acceptance for the treatment of any wooden containers used in the handling or warehousing of odor and mildew-sensitive materials. Broader uses for Cellu-san are being found among dairies, bottlers, brewers, manufacturers, pallet manufacturers and industrial engineers.

With a national advertising program reaching box manufacturers, canners, packers, growers through trade paper advertising and direct mail, the

signs point to an even bigger and better future for this new Connecticut product manufactured by one of the state's oldest companies.

5 requirements of a sound Pension Trust Plan

Attractive . . . It should provide sufficient benefits to assure employees of a comfortable retirement and an equitable share of the fund in event of termination of service after a reasonable length of time.

Practical . . . The contributions paid by the employers and the employees, as the case may be, must be well within their ability to pay.

Flexible . . . It is of utmost importance to have a plan that can be revised and amended to meet changing economic and social conditions.

Profitable . . . The plan must be profitable to the employees, for only then will they become enthusiastic about it. And the results of the plan must be sufficient to justify the employer's contribution.

Sound . . . There should be sufficient funds to guarantee the pension and in addition it must be actuarially sound to qualify for tax exemption.

The Connecticut Mutual Pension Trust Plan fulfills all these requirements -- and more. Ask for a copy of our free booklet, "Pension Trusts, their advantages to Employers and Employees".

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PUSH-BUTTON BANDAGE

It's a miracle of modern medicine — a spray-on plastic dressing in a push-button aerosol bomb. Tough, transparent, flexible — fast and easy to apply — it's the last word in convenience and efficiency.

In the field of insurance, too, there's a modern, highly efficient way to fit the protection of business and industrial concerns exactly to each firm's individual requirements. It's the *Ætna Plan* — pioneer system of risk and insurance analysis.

Using this advanced Plan, your *Ætna* representative can pin-point the hazards to which you are exposed — fit policies precisely to your particular needs — and set up continuing controls that will keep your program always up-to-date.

Let your local *Ætna* representative put this effective, modern plan to work for *your* business. The *Ætna Plan* has meant better protection for thousands of others — it can do the same for you.

**There's a modern way
in insurance, too—**

***Ætna Plan protection
means better protection***



ÆTNA CASUALTY AND SURETY COMPANY

AFFILIATED COMPANIES: *ÆTNA LIFE INSURANCE COMPANY*
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HARTFORD 15, CONNECTICUT



ACCOUNTING HINTS

Contributed by the Waterbury Chapter National Association of Cost Accountants to stimulate the use of better accounting techniques in industry.

Cost Reports

COST accounting must present to the executive the fair, complete costs of his units of production; it must tell of the use and waste of materials; it must illustrate in operation and in groups, the productivity of labor; it must present values and returns, in units and by divisions, of his expenses and their relation to labor operations and sales; it must show the relation of sales to production, and of changing situations as may be desired, and, in addition, it must be used to show the comparative value of different methods. It must do all these things with a minimum of time and exertion on the part of the executive; for too much accounting system, too many figures, defeat the real purpose of cost accounting.

The trouble with most cost systems is that they are designed for cost accountants instead of the operators of the business. While certain principles of accounting and auditing should be maintained, the primary purpose is to provide useful information to the operating men in the business. It is important then, to remember to design a cost system from reports that will be useful to operators and to work back from these reports in the installation of the system.

Department heads such as foremen and junior executives should be concerned with details of everyday operations and reports submitted to them should be detailed in character and should emphasize cost control. These men are concerned with the expenditure of labor, material and overhead. The executive within this group is entitled to as much service from the cost department as a higher official.

General executives include those who have supervision over and responsibility for functions exercised on

a plant wide scale. These men exert their influence on costs and operating results through organization, direction and inspiration of their subordinates.

Instead of merely collecting figures, a purely clerical task, the cost accountant is required to digest the significance of facts compiled, and to arrange them in a way that enables the executive to take whatever action the situation demands. When cost accounting is limited to cost collecting, the executive must work through all the details to sort out the irrelevant from the significant material.

Good cost reports should be judged on economy of time and effort, physical make up, timeliness and content.

Economy of time and effort. The principle of exceptions may be used to eliminate those items that do not need study or action. Management needs vivid information and less detail. This means that the executive should receive a summary that gives him a birdseye view of conditions with a minimum of time and a maximum of speed.

Physical make-up. The title should clearly describe the report. Brevity is desired but should not be favored at the expense of clarity. The period covered should be clearly indicated. The subject matter should be suited to the person who is receiving the report. Advanced statistical techniques should be employed only where the reader clearly understands the implications and assumptions. For example, logarithmic charts and semilogarithmic charts should only be used for persons who understand their use. The summary should be presented first but detail supporting information should be readily available.

Timeliness. Production executives need information while the work is be-

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Insurance

GERARD MORRISSEY

BENJAMIN CHENEY

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INSURANCE CONTROL
FOR
INDUSTRIAL AND COMMERCIAL
ACCOUNTS

163 ASYLUM ST., HARTFORD, CONN. ,

WORTH-SPAR ANTI-SLIP Floor Sweeping COMPOUNDS

Sweep up dust, dirt

fast in
office,
plant,
ware-
house

Write



The Worth-Spar Co., Inc.
MIDDLETOWN, CONN.



BEAUTY IS AS BEAUTY DOES . . . a Wittstein Container is an attention getting advertising display which ships your product safely and economically. Call

JACK WITTSTEIN
Box 1348, 56 Church Street
MAin 4-5121, New Haven 5, Conn.

ing performed in order to correct conditions that may have gone out of control. Routine reports must be submitted at regular intervals and where condition warrant, such as the danger of high spoilage, daily reports should be instituted.

Content. Emphasis must be placed on the items which are most important. In some businesses, labor is the most controllable and the largest element of cost whereas in some process industries material usage and quality is stressed. Reports must be comparable with previous reports. In general, the items that are controllable by an executive should be emphasized in the report that he receives.

These are but a few of the considerations in evaluating the expense of supporting a cost department. While many modern companies have taken effective action in obtaining adequate records and presenting timely reports, many companies have not exploited the information that is compiled in the accounting department. Without a doubt, many of these com-

panies would be able to cut their costs immensely by the simple process of creating a cost system that is primarily a service to furnish information to the executives at all levels for the effective control of men, materials and machines.

try with a high level of productivity and at the same time, they must be certain that what they do is fully understood and accepted by the public. From what I saw and heard at the convention, I doubt if there is too much we have to fear from decisions arrived at by industry.

A Student Reports On NAM Congress

(Continued from page 13)

important that the advantages of stronger competition, safer and better working conditions, and greater productivity, which are brought about by automation, be thoroughly explained. In this way, industry will gain support from its employees and the community in a movement which might otherwise be a difficult situation.

The responsibility then is that of industry. They must provide the coun-

Although the 59th Congress of Industry is now over, the task of the individual student and apprentice present at the convention is just beginning. While at the Congress of Industry, we heard many ideas and opinions. It is up to us to weigh the policies set forth and to make our own decisions concerning industry and its relationship to the other sectors of the economy.

In conclusion, I would like to express my thanks to the National Association of Manufacturers, Quinnipiac College, and to the Manufacturers Association of Connecticut for making it possible for me to have become a part of such an event. It was an honor, a privilege and an experience to be remembered.



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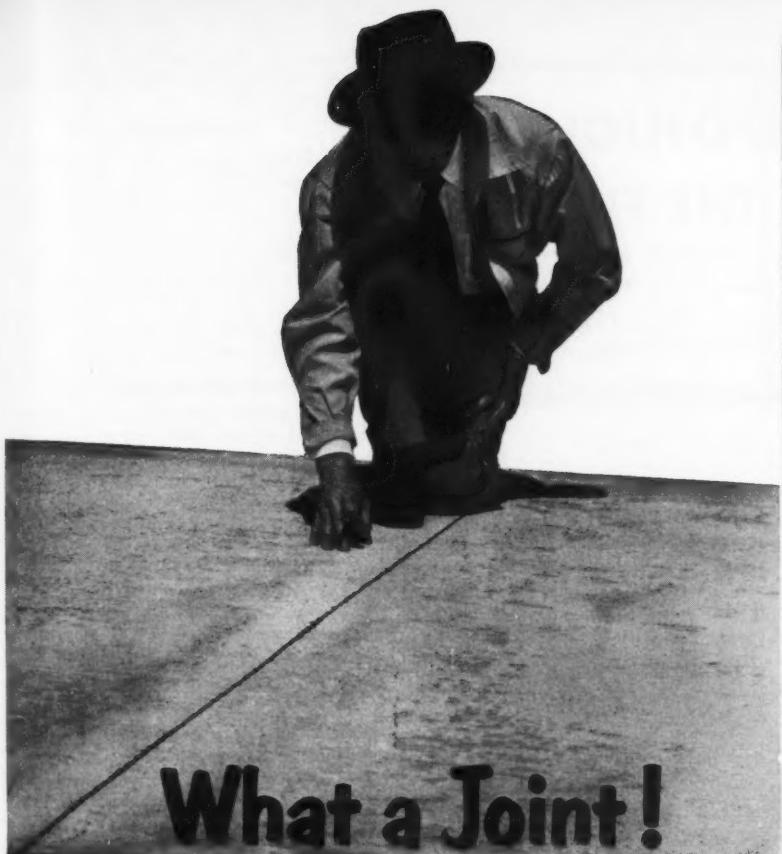
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What a Joint!

it's real smooth on modern concrete roads

The engineers who built the concrete roads that pulled America out of the mud more than a generation ago thought joints had to be wide and frequent to permit expansion and contraction of the concrete slabs. Most of those roads built 30 to 40 years ago are still serving, too, but they're as different from modern concrete roads as the Model T is from today's automobiles.

Years of experience and experiment have brought steady improvements in jointing. Now engineers have found a new method of making joints in concrete pavement that has highway circles excited. After the concrete hardens they saw a thin groove, usually only $\frac{1}{8}$ inch wide, across the slab. Then they seal the slot with a plastic material that can't be squeezed out.

Talk about joints! If you didn't see them you wouldn't know they were there. They're that smooth.

Improvements like this don't just happen. They result from painstaking research by many organizations, including the Portland Cement Association. Finding ways to give highway users even safer, more durable and lower-annual-cost concrete roads for their tax dollars is a job to which the PCA is dedicated.

The voluntary financial support of member companies, listed at the right, makes this and all other PCA activities possible.

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250 Park Avenue, New York 17, N. Y.

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Huron Portland Cement Co., Detroit
Ideal Cement Co. Divisions, Denver
Alabama Division, Mobile
Arkansas Division, Little Rock
Colorado Division, Denver
Gulf Division, Houston
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Oklahoma Division, Oklahoma City
Spokane Division, Spokane
Three Forks Division, Butte, Mont.
Union Portland Division, Salt Lake City
Keystone Portland Cement Co., Philadelphia
Kosmos Portland Cement Co., Louisville
Lehigh Portland Cement Co., Allentown, Pa.
Lone Star Cement Corp., New York
Longhorn Portland Cement Co., San Antonio
Louisville Cement Co., Louisville
Manitowoc Portland Cement Co., Manitowoc, Wis.
Marquette Cement Manufacturing Co., Chicago
Medusa Portland Cement Co., Cleveland
The Missouri Portland Cement Co., St. Louis
The Monarch Cement Co., Humboldt, Kan.
Monolith Portland Cement Co., Los Angeles
Monolith Portland Midwest Co., Los Angeles
National Cement Co., Birmingham
National Portland Cement Co., Philadelphia
Nazareth Cement Co., Nazareth, Pa.
North American Cement Corp., New York
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Northwestern States Portland Cement Co.,
Mason City, Iowa
The Olympic Portland Cement Co., Ltd., Seattle
Peerless Cement Corp., Detroit
Penn-Dixie Cement Corp., New York
Petersburg Portland Cement Co., Petersburg, Mich.
Pittsburgh Plate Glass Co., Columbia Cement Division,
Zanesville, Ohio
Riverside Cement Co., Los Angeles
San Antonio Portland Cement Co., San Antonio
Southern States Portland Cement Co., Atlanta
Southwestern Portland Cement Co., Los Angeles
The Standard Lime & Stone Co., Baltimore
Standard Portland Cement Division, Diamond
Akilei Co., Cleveland
St. Mary's Cement Co., Ltd., Toronto
Superior-Marquette Cement Co., Portsmouth, Ohio
Superior Portland Cement, Inc., Seattle
Universal Atlas Cement Co., New York
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Whitehill Cement Manufacturing Co., Philadelphia
Wyandotte Chemicals Corp., Wyandotte, Mich.

A national organization to improve and extend the uses of portland cement and concrete through scientific research and engineering field work



SPOTLIGHT ON THE FUTURE*

By CHESTER F. OGDEN
Manager of Purchases
Detroit Edison Company
Detroit, Michigan

General Business Conditions

HERE is renewed vigor in the business picture according to Purchasing Executives in their February report. Production continues high, with 43% reporting an increase over last month and 49% the same. Those reporting an increase in new orders (55%) are the greatest since September, 1950. However, the 8% who reported a reduction in production and new orders were most vociferous. They felt strongly that business conditions for the company, or in their area, were not good. The general consensus of all reporting members, though, is that current business conditions are good and there is a comfortable order backlog and high production rate.

Commodity prices have definitely moved upward, in spite of increased competition and discounts on some items. Inventories are balanced and there is strong evidence that Purchasing Agents are unwilling to jeopardize

their good inventory position by "second guessing" to protect against strikes or world unrest. With regard to buying policy, there is a definite trend to lengthen coverage just a little. The items being bought further in advance are generally those in short supply or where "bargains" have been available.

Employment remains high, with a shortage of clerical and skilled help. In some areas, there is a surplus of common labor.

Commodity Prices

Prices are up, so say more than half of the reporting Purchasing Agents. This is the largest number reporting increases since February, 1951. The parade of increases was led by basic raw materials such as copper, aluminum and rubber.

Offsetting these increases, however, competition is reported very keen on many manufactured items and on some products; an example is heavy elec-

trical equipment, where the market has been unstable.

Inventories

"Balanced" sums up the general consensus of reporting Purchasing Agents on inventories of purchased materials.

Over 80% of those reporting indicate their inventories are the same or up slightly (to offset increased business) and nearly all are satisfied with their present inventory picture.

Employment

Employment remains at a high level. Scattered reports show some surpluses of unskilled labor, but even most of these look optimistically at a slow but steady pickup in employment as Spring approaches. Skilled technical help and good clerical help are reported in demand in some areas. Of the Purchasing Agents reporting this month, only 8% indicated any drop in their employment figures and these were explained as being normal or of little significance.

Buying Policy

Buying policy is a little less conservative, with 76% of the reporting Purchasing Agents operating in the hand-to-mouth to 60-day range, as compared to 95% last month. There is some scattered evidence of advance coverage on items which are, or may become, short—such as steel and copper. Also, some coverage has been lengthened to take advantage of "good buys" available on certain mechanical and electrical items.

Specific Commodity Changes

Again this month, copper, brass, aluminum and rubber were the items most generally reported as up in price. Coffee, following the recently announced price cuts, was the leader of the three commodities reported down this month.

On the up side were: Copper, brass, brass mill products, bronze castings, nonferrous and ferrous scrap, aluminum, chains, tin, rubber, tires, fine papers, cotton yarn, jute yarn, #6 fuel oil, and lumber.

On the down side were: Coffee, electric motors and some cotton linters.

In short supply: Copper, nickel, prime aluminum, galvanized steel sheets, cold rolled steel sheets, some hot rolled steel sheets and some steel items.

*Composite opinion of purchasing agents who comprise the N.A.P.A. Business Survey Committee, whose Chairman is Chester F. Ogden, Manager of Purchases, The Detroit Edison Company, Detroit, Michigan.



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BUSINESS TIPS

from

School of Business Administration
University of Connecticut

How To Get The Most Out A Media Salesmen

By ROLAND B. SMITH, Assistant Professor of Advertising

The University of Connecticut

MEDIA salesmen have been called the most valuable river of ideas the space buyer has. This is no over-statement since properly handled a good space salesman can become an assistant advertising manager — without pay. What is needed is for space buyers, and advertising managers, to use the talents and facilities of the space salesman more extensively and more intensively.

Consider what a salesman has to offer. First, he is, or ought to be, a specialist in the market served by his publications. As a specialist he can be the most prolific source of up-to-date, reliable, first-hand information about the markets served by his medium available to advertisers. Second, he is, or ought to be, equally conversant with the relationship of his publication to that market. Third, he can bring to bear on your advertising problems the full resources of his publishing firm—often quite extensive, in gathering market data, testing, merchandising, and sales promotion. He can help plan scheduled; he can help build budgets, media lists, and suggest effective campaign themes.

Being an advertising man, acquainted with his market, he is a useful critic of advertising appeals and copy. Because he gets around, he can enlist salesmen, advertising workers, and other personnel needed by an advertiser. The media salesman can usually assist an agency prepare a presenta-

tion by making available market and media data, or assist an advertising manager sell his budget request.

How can the advertiser or agency representative get the most out of a media salesman? Here are some suggestions:

1. Give him full and complete information about your product, your plans and advertising problems so he has a full set of facts with which to work. A salesman has little chance to assist a client if he doesn't know the client's problems or the framework within which the client must work. Don't keep a space salesman in the

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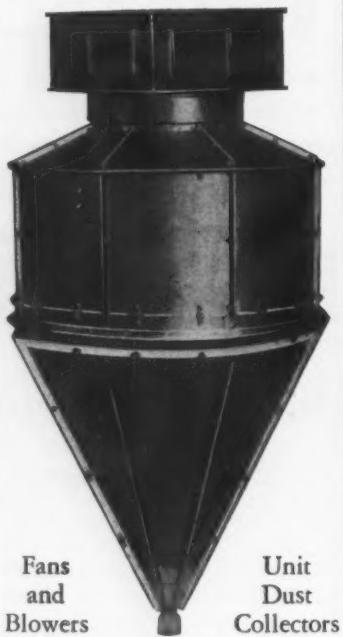
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dark if you would get the most out of him.

2. Give him an adequate opportunity to tell you his story fully and in detail. This means more than just listening. It includes requiring of the salesman a carefully prepared presentation on your markets and on his medium. It includes having all other interested personnel in your firm on hand to hear this presentation, or at least a summary of it. It includes paying attention to what the salesman has to say. And, it includes asking for evidence and proof of his claims in terms that are comparable to competitive media.

3. Plan his calls with him so that he will be in your office at those times of the year when his information will be of greatest value to you. Encourage appointments. Discourage casual calls. Make clear that you have time only to listen to information, not chit-chat.

4. Don't play him between your office and the agency, or vice versa. Don't ask for special favors that cannot be granted to other advertisers. Don't let him waste his time and your knocking competition, or presenting a negative story. Don't encourage him to violate confidences.

5. Conserve his time—and yours. Don't keep him waiting unnecessarily when he calls. (This is especially important if you have arranged the appointments). Stick to the subject and avoid irrelevancies during the interview. Avoid taking unnecessary phone calls, permitting other interruptions by associates, assistants, etc. Pay attention to him; avoid attending to other matters—have a clear desk. Conserve his time, and yours, by not procrastinating. Make decisions and stick by them. Don't waste his time and yours by avoiding a flat truthful statement if you're not putting his book on your list.

At first glance these suggestions seem to put on the advertiser's shoulders a responsibility for upgrading some space men. That may be true. But nevertheless, it will likely prove true also that by observing these suggestions space men will not only be upgraded but by that means you will be gaining valuable assistance that can be multiplied by the number of salesmen who call on you—an impressive array of stand-buy talent and manpower—for the asking.

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297 RIVERSIDE AVENUE • BRISTOL, CONN.

The Connecticut "White House" Conference

(Continued from page 12)

ceived of as a life-long process, which included emotional, social, moral and intellectual development."

It was recognized that "there are difficulties in trying to realize this goal," and the group "recommended a joint and continuous effort by all elements in the community in working out the school program. All groups thought that a major task of education today is to improve communication between the specialized educator and the general consumer."

Concerning teachers: "The primary recommendation made was that there should be more public enlightenment of what the profession stands for and what the experience of teaching can give. A greater dissemination of the facts with regard to the teacher shortage is necessary, and an active program of recruitment."

Concerning school buildings: "There was emphasis upon an adequate program and not a minimum program, with flexibility in view of future needs. Due regard should be given to the economical operation of all buildings."

"The long range needs of the town should always be taken into consideration, and strongly recommended was early consultation with an architect regarding design, use of new materials and the like."

Concerning school finance: "At the present time 83% of the expense is met by local sources and 17% through state aid. Can the towns continue or increase their support? It was remarked that the limit to town support has been reached politically but not economically. There were three groups discussing the problem of state aid. Two groups decided in separate meetings that they would vote to recommend a \$40-per-pupil state aid at this session of the General Assembly. The third group suggested that operating costs should be met by the State according to the need."

"It was suggested that the present program of state grants for public school buildings be revised to provide \$500 for elementary schools, \$700 for secondary schools or 1/3 of the cost of the project, whichever is the lesser, excluding land acquisition costs."

In conclusion: "One can only wish that all members of faculties in Connecticut schools might have taken part in this conference, for it would have

encouraged them to know of the public interest in the problems which they daily face. On the other hand, it would have been a heartening experience for all parents to sit down with teachers and educators, as we have done at this conference, and see their understanding and their desire to do the best thing for each child."

A further word—"The White House Conference itself will be a study conference. It is important to keep in mind in this connection that education is a matter for the states and for local authorities, and that action can be taken in the State of Connecticut by our General Assembly and by our local boards.

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IT'S MADE IN CONNECTICUT

EDITOR'S NOTE: This department, giving a partial list of peace-time products manufactured in Connecticut by company, seeks to facilitate contacts between prospective purchasers in domestic or foreign markets and producers. It includes only those listings purchased by Connecticut manufacturers. Interested buyers may secure further information by writing this department. Connecticut manufacturers desiring to list their products in this department should write the Editor for listing rates.

(Advertisement)

Accounting Forms	New Haven	Ammunition	Bond Electric Corporation Division of Olin Industries Inc (flashlight, radio, hearing aid and others) New Haven
Baker-Goodyear Co The		Remington Arms Co Inc and Peters Cartridge Div	
Accounting Machines	Bridgeport	Winchester Repeating Arms Company Division	
Underwood Corporation		Olin Industries Inc	New Haven
Adding Machines	Bridgeport		
Underwood Corporation			
Advertising Mats	Hartford	Anodizing	
Lockwood Sons Inc Wm H		Conn Metal Finishing Co	Hamden
Advertising Plates	Hartford		
Lockwood Sons Inc Wm H		Conn Metalcraft Inc	New Haven
Advertising Specialties	Ansonia	Anodizing Equipment	
H C Cook Co The 32 Beaver St		Permatex Fabrics Corp The	Jewett City
Halco Co	New Haven		
Air Compressors	Hartford	Artificial Leather	
Spencer Turbine Co The		Auburn Manufacturing Company	The (gaskets, packings, wicks) Middletown
Air Conditioning	South Norwalk	Asbestos	
Norwalk Airconditioning Corp The (forced air heating units oil fired)		Colt's Manufacturing Company	Hartford
Air Impellers	Torrington	Asbestos & Rubber Packing	
The Torrington Manufacturing Co		Knapp Foundry Company Inc	(bushing & bearing stock) Guilford
Aircraft		Assemblies—Small	
Sikorsky Aircraft Division United Aircraft Corporation (helicopters)	Bridgeport	Barnes Co The Wallace Div Associated Spring Corp	Spring Bristol
Aircraft Accessories		Greist Manufacturing Co The	New Haven
Chandler Evans Div Niles-Bement-Pond Co (Piston and Jet Engine Accessories—Carburetors, Fuel Controls, Afterburner Regulators, Pumps, Servomechanisms and Protek Plugs)	West Hartford	Humason Mfg Co The	Forestville
Fenn Mig Co The (Hardened and Ground Gears assemblies)	Newington	J H Sessions & Son	Bristol
Gabb Special Products Div E Horton & Son Company (filler caps—pressure fuel servicing systems)	Windsor Locks	Auto Cable Housing	Hartford
Hamilton Standard Div United Aircraft Corp (propellers and other aircraft equipment)	Middletown		
Manning Maxwell & Moore Inc (aircraft pressure switches and jet engine afterburner control systems)	Stratford	Automatic Control Instruments	Waterbury
Russell Manufacturing Company The (CAA approved safety belts; webbing and hardware for safety belts; shock rings and shock cord; ring and cord hardware; webbing for all aircraft applications)			
Aircraft Instruments	Stamford	Automobile Accessories	Fairfield
Gorn Electric Company Inc		Kilbourn-Sauer Company (lights and other accessories)	
Aircraft—Repair & Overhaul		Automotive Bodies	Bridgeport
Airport Department Pratt & Whitney Aircraft Division	Hartford	Metropolitan Body Company	Bridgeport
Rentschler Field East		Automotive Parts	
		Eis Manufacturing Co (Hydraulic and Mechanical)	Middleton
Aircraft Test Equipment	Hamden	Raybestos Division of Raybestos-Manhattan Inc (Brake Lining, Lined Brake Shoes, Clutch Facings, Automatic Transmission Parts, Fan Belts, Radiator Hose and Miscellaneous Rubber)	Waterbury
United Manufacturing Co Division of The W L Maxson Corp		Automotive Tools	
		Eis Manufacturing Company	Middleton
Air Ducts	Hartford	Bags—Paper	
Wiremold Co The (Retractable)		American Paper Goods Company The	Kensington
Air Heaters—Direct Fired	Stamford	Bakelite Moldings	Watertown
Perry Engineering Corporation		Abbott Ball Co The (steel bearing and burnishing)	Hartford
Aluminum Bronze Castings	Guilford	Hartford Steel Ball Co The (steel bearing and burnishing, brass, bronze, monel, stainless aluminum)	Hartford
Knapp Foundry Company Inc		Killian Steel Ball Corp The	Hartford
Aluminum Castings		Banbury Mixers	Ansonia
Consolidated Industries Inc	West Cheshire	Abbott Ball Co The (burnishing and tumbling)	Hartford
Eastern Malleable Iron Company The		Hartford-Steel Ball Co The (tumbling)	Hartford
Newton-New Haven Co 688 Third Avenue	Naugatuck	Barrels	
	West Haven	Conn Metalcraft Inc	New Haven
Charles Parker Company The	Meriden	Baskets—Wire	
Stamford Casting Company Inc (Aluminum, Magnesium and Bronze)	Stamford	Rolock Inc	Fairfield
Aluminum Forgings		Bathroom Accessories	
Consolidated Industries Inc	West Cheshire	Autyre Company The	Oakville
Soovill Manufacturing Company	Waterbury 91	Charles Parker Co The	Meriden
Aluminum Ingots	New Haven		
Lapides Metals Corp			
Aluminum Lasts			
United States Rubber Company Shoe Hardware Division	Waterbury		
Aluminum—Sheets & Coils			
United Smelting & Aluminum Co Inc	New Haven		

IT'S MADE IN CONNECTICUT

Bottle Openers		Brass Mill Products		Cages	
Scoville Mfg Co (steel, anodized aluminum)	Waterbury	American Brass Company The	Waterbury	Andrew B Hendryx Co The (bird and animal)	New Haven
Box Board		Bridgport Brass Co	Bridgeport		
Lydall & Foulds Paper Co The	Manchester	Chase Brass & Copper Co	Waterbury		
National Folding Box Co Inc	New Haven	Plume & Atwood Mfg Co The	Thomaston		
Robertson Paper Box Co	Montville	Scovill Manufacturing Company	Waterbury 91	American Cam Company Inc	Hartford
Gair Company Inc Robert	Montville	Western Brass Mills Division of Olin Industries Inc	New Haven	Hartford Special Machinery Co The	Hartford
New Haven Board and Carton Co The	New Haven			Rowbottom Machine Company Inc	Waterbury
Boxes					
Clairglow Mfg Company (metal)	Portland				
Connecticut Container Corporation	New Haven				
Gair Company Inc Robert (corrugated and solid fibre shipping containers)	Portland				
Merriam Mfg Co (steel cash, bond, security, fitted tool and tackle boxes)	Durham				
Warner Bros Co The (Acetate, Paper, Acetate and Paper Combinations, Counter Display, Setup)	Bridgeport				
Boxes and Crates					
City Lumber Co of Bridgeport Inc The	Bridgeport				
Wallingford Planing Mill Co Inc	Yaleville				
Boxes—Metal					
Merriam Mfg Co (Bond and Security, Cash and Utility, Personal Files and Drawer Safes)	Durham				
Boxes—Paper—Folding					
Atlantic Carton Corp	Norwich				
Bridgeport Paper Box Co	Bridgeport				
Carpenter-Hayes Paper Box Co Inc The	East Hampton				
Curtis & Sons Inc S	Sandy Hook				
Dowd Carton Co M S	Groton				
Folding Cartons Incorporated (paper, folding)	Versailles				
Gair Company Inc Robert	Montville				
H J Mills Inc	Bristol				
National Folding Box Co Inc (paper folding)	New Haven				
New Haven Board and Carton Co The	New Haven				
Robertson Paper Box Co	Montville				
Warner Bros Co The	Bridgeport				
Boxes—Paper—Setup					
Box Shop Inc The	New Haven				
Bridgeport Paper Box Co	Bridgeport				
Heminway Corporation The	Waterbury				
H J Mills Inc	Bristol				
Strouse Adler Company The	New Haven				
Warner Bros Co The	Bridgeport				
Brake Cables					
Eis Manufacturing Co	Middletown				
Brake Linings					
Raybestos Division of Raybestos-Manhattan Inc (Automotive and Industrial)	Bridgeport				
Russell Mfg Co The	Middletown				
Brake Service Parts					
Eis Manufacturing Co	Middletown				
Brass & Bronze					
American Brass Co The (sheet, wire, rods, tubes)	Waterbury				
Bridgeport Brass Company (sheet, rod, wire and tubing)	Bridgeport				
Bristol Brass Corp The (sheet, wire, rods)	Bristol				
Chase Brass & Copper Co	Waterbury				
Miller Company The (phosphor bronze and brass in sheets, strips, rolls)	Meriden				
Plume & Atwood Mfg Co The (sheet, wire, rod)	Thomaston				
Scovill Manufacturing Company	Waterbury 91				
Tinsheet Metal Co The (sheets and rolls)	Waterbury				
Western Brass Mills Division of Olin Industries Inc (sheet, strip)	New Haven				
Brass & Bronze Ingot Metal					
Plume & Atwood Mfg Co The	Thomaston				
Whipple and Choate Company The	Bridgeport				
Brass, Bronze, Aluminum Castings					
Charles Parker Company The	Meriden				
Stamford Casting Company Inc	Stamford				
Victora Brass Foundry Inc	Guilford				
Brass Goods					
American Brass Company The	Waterbury				
Plume & Atwood Mfg Co The (to order)	Waterbury				
Rostand Mfg Co The (Ecclesiastical Brass Wares)	Milford				
Scovill Manufacturing Company (order to)	Waterbury 91				
Western Brass Mills Division of Olin Industries Inc	New Haven				
Cabinet Work					
Hartford Builders Finish Co	Hartford				
Cable—Asbestos Insulated					
Rockbestos Products Corp	New Haven				
Cable—BX Armored					
General Electric Company	Bridgeport				
Cable—Nonmetallic Sheathed					
General Electric Company	Bridgeport				
Cable—Service Entrance					
General Electric Company	Bridgeport				
Cages					
Andrew B Hendryx Co The (bird and animal)	New Haven				
Cams					
American Cam Company Inc	Hartford				
Hartford Special Machinery Co The	Hartford				
Rowbottom Machine Company Inc	Waterbury				
Canvas Products					
F B Skiff Inc	Hartford				
Capacitors					
Electro Motive Mfg Co Inc The (mica & trimmer)	Willimantic				
Card Clothing					
Standard Card Clothing Co The (for textile mills)	Stafford Springs				
Carpenter's Tools					
Sargent & Company (Planes, Squares, Plumb Bobs, Bench Screws, Clamps and Saw Vices)	New Haven				
Carpet					
B F Goodrich Sponge Products Division	Shelton				
Carpet Cushion					
B F Goodrich Sponge Products Division	Shelton				
Carpets and Rugs					
Bigelow-Sanford Carpet Co	Thompsonville				
Casters					
Bassick Company The (Industrial and General)	Bridgeport				
Casters—Industrial					
George P Clark Co	Windsor Locks				
Castings					
Connecticut Foundry Co (grey iron)	Rocky Hill				
Connecticut Malleable Castings Co (malleable iron castings)	New Haven				
Consolidated Industries Inc	West Cheshire				
Charles Parker Company The (brass, bronze, aluminum)	Meriden				
Eastern Malleable Iron Company The (malleable iron, metal and alloy)	Naugatuck				
Farrel-Birmingham Company Inc (Meehanite, Nodular, Iron, Steel)	Ansonia				
Gillette-Vibber The (grey iron, brass, bronze, aluminum, also Bronze Bushing Stocks)	New London				
Plainville Casting Company (gray, alloy and high tensile irons)	Plainville				
Malleable Iron Fittings Co (malleable iron and steel)	Brantford				
McLagon Foundry Co (grey iron)	New Haven				
Meyer Iron and Brass Foundry Inc (grey iron)	Shelton				
Newton-New Haven Co (zinc and aluminum)	688 Third Ave West Haven				
Philbrick-Booth & Spencer Inc (grey iron)	Hartford				
Producto Machine Company The	Bridgeport				
Scovill Manufacturing Company (Brass & Bronze)	Waterbury 91				
Stamford Casting Company Inc (Aluminum, Magnesium and Bronze)	Stamford				
Turner & Seymour Mig Co The (gray iron, semi steel and alloy)	Torrington				
Union Mig Co (grey iron & semi steel)	New Britain				
Waterbury Foundry Company The (highway & sash weights)	Waterbury				
Wilcox Crittenden & Co Inc (gray iron and brass)	Middletown				
Castings—Investment					
Arwood Precision Casting Corp	Groton				
Cements—Refractory					
Mullite Refractory Co The	Shelton				
Chain					
John M. Russell Mfg Co Inc	Naugatuck				
Turner and Seymour Mfg Co The (weldless, sash, jack, safety, furnace, universal, lion and cable)	Torrington				
Chain—Power Transmission and Conveying					
Whitney Chain Company	Hartford				
Chain—Welded and Weldless					
Round Chain Div. Republic Steel Corp.	Bridgeport				
Chain—Bead					
Auto-Swage Products Inc	Shelton				
Bead Chain Mfg Co The	Bridgeport				
Chairs					
The Hitchcock Chair Company	Riverton (Advt.)				

IT'S MADE IN CONNECTICUT

Chemical Manufacturing		Concrete Products		Cotton Yarn		
Carwin Company The	North Haven	Plasticrete Corp	Hamden	Floyd Cranska Co The	Moosup	
Chemicals		Cones		Counting Devices		
American Cyanamid Company	Waterbury	Sonoco Products Co (Climax-Lowell Div)	Mystic	Veeder-Root Inc	Hartford	
Apothecaries Hall Co	Waterbury	(Paper)		Couplings—Self-Sealing		
Carwin Company The	North Haven	Stanley P Rockwell Co Inc The (Consulting)	Hartford	Sperry Products Inc	Danbury	
Macalaster Bicknell Company	New Haven	296 Homestead Ave		Cranes and Conveyors		
MacDermid Incorporated	WATERBURY	Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford	I-B Engineering Sales Co	New Haven	
Naugatuck Chemical Division	United States	Continuous Mill Gages		Crushers		
Rubber Co	Naugatuck	Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford	Farrel-Birmingham Company Inc (Stone and Ore)	Ansonia	
New England Lime Company	Canaan	Contract Machining		Cups—Paper		
Pfizer & Co Inc Chas	Groton	Malleable Iron Fittings Company	Branford	American Paper Goods Company The ("Puritan")	Kensington	
Chemicals—Agriculture		Charles Parker Co	Meriden	Cushioning for Packaging		
Naugatuck Chemical Division	United States	Fenn Mfg Co The (Precision Machine Work)	Newington	B F Goodrich Sponge Products Division	Shelton	
Rubber Co (insecticides, fungicides, weed killers)	Naugatuck	Greist Mfg Co The (metal parts and assemblies)	New Haven	Gilman Brothers Co The	Gilman	
Christmas Light Clips		503 Blake St		Cut Stone		
Foursome Manufacturing Co	Bristol	Merriam Mfg Co (production runs—metal boxes and containers to specifications)	Durham	Dextone Co The	New Haven	
Chromium Plating		Charles Parker Co (sheet metal fabricators)	Meriden	Cutters		
Chromium Corp of America	Waterbury	Plume & Atwood Mfg Co The (metal parts & assemblies)	Waterbury	Barnes Tool Company The (pipe cutters, hand)	New Haven	
Chromium Process Company The	Shelton	Scovill Manufacturing Company (metal parts and assemblies)	Waterbury 91	Mitrametric Co The (ground pinion)	Torrington	
City Plating Works Inc	Bridgeport	J H Sessions & Son	Bristol	Pratt & Whitney Div Niles-Bement-Pond Co (Milling Cutters all types)	West Hartford	
Chucks		Controllers	Waterbury	Decorative Plating and Polishing		
Cushman Chuck Co The	Hartford	Bristol Company The	Stratford	City Plating Works Inc	Bridgeport	
Horton Chuck Div The E Horton & Son Company	Windsor Locks	Manning Maxwell & Moore Inc		Deep Drawings		
Jacobs Manufacturing Co The	West Hartford	Controls—Remote	Waterbury	Stanley Pressed Metal	New Britain	
Union Manufacturing Company	New Britain	Panish Controls (Remote Controls for Marine & Aeronautic Applications)	Bridgeport	Delayed Action Mechanism		
Chucks—Drill		Leeds Electric & Mfg Co The	East Haven	M H Rhodes Inc	Hartford	
Jacobs Manufacturing Co The	West Hartford	Production Equipment Co	Meriden	R W Cramer Company Inc The	Centerbrook	
Chucks & Face Plate Jaws		Copper		Deminerallizers		
Cushman Chuck Co The	Hartford	American Brass Corp The (sheet, wire, rods, tubes)	Waterbury	Crystal Research Laboratories	Hartford	
Union Mfg Co	New Britain	Bridgeport Brass Company (sheet, rod, wire and tubing)	Bridgeport	Diamonds—Industrial		
Horton Chuck Div The E Horton & Son Company	Windsor Locks	Bristol Brass Corp The (steel)	Bristol	Diamond Tool and Die Works	Hartford	
Jacobs Manufacturing Co The	West Hartford	Chase Brass & Copper Co (sheet, rod, wire tube)	Waterbury	Dictating Machines		
Union Manufacturing Company	New Britain	Thinsheet Metals Co The (sheets and rolls)	Waterbury	Dictaphone Corporation	Bridgeport	
Chucks—Power Operated		Western Brass Mills Division of Olin Industries Inc (sheet, strip)	New Haven	Gray Manufacturing Company The	Hartford	
Cushman Chuck Co The	Hartford	Copper Castings	Guilford	Soundscriber Corporation The	New Haven	
Union Manufacturing Company	New Britain	Knapp Foundry Company Inc		Die Castings		
Circuit Breakers		Copper Sheets	Waterbury	Newton-New Haven Co Inc	New Haven	
Trumbull Components Department, General Electric Co	Plainville	American Brass Company The	Seymour	Die Casting Dies		
Clay		New Haven Copper Co The		ABA Tool & Die Co	Manchester	
Howard Company (Fire Howard "B" and High Temperature Dry)	New Haven	Copper Shingles	Seymour	Parker Stamp Works Co The	Hartford	
Cleaning Compounds		New Haven Copper Co The		Weimann Bros Mfg Co The	Derby	
Enthone Inc (Industrial)	New Haven	Copper Water Tube	Waterbury	Eastern Machine Screw Corp The	Truman & Barclay Sts	New Haven
Cleansing Compounds		American Brass Company The	Bridgeport	Die Heads—Self Opening		
MacDermid Incorporated	Waterbury	Bridgeport Brass Co		Eastern Machine Screw Corp The	New Haven	
Clock Mechanisms		Cords—Asbestos	Bridgeport	Die Polishing Machinery		
Lux Clock Mfg Co The	Waterbury	General Electric Company		Hartford Special Machinery Co The	Hartford	
Clocks		Cords—Braided	Bridgeport	Die Sets		
E Ingraham Co The	Bristol	General Electric Company		Pratt & Whitney Div Niles-Bement-Pond Co (Precision)	West Hartford	
Seth Thomas Clocks	Thomaston	Cords—Heater	Bridgeport	Producto Machine Company The	Bridgeport	
United States Time Corporation	The	General Electric Company		Union Mfg Co (precision, steel and semi-steel)	New Britain	
Clocks—Alarm		Cords—Portable	Bridgeport	Dies		
Lux Clock Mfg Co The	Waterbury	General Electric Company		Hoggson & Pettis Mfg Co The	141 Brewery St New Haven	
Clocks—Automatic Cooking		Cord Sets	Bridgeport	Mitrametric Co The (ground for gears)	Torrington	
Lux Clock Mfg Co The	Waterbury	Seeger-Williams Inc		Parker Stamp Works Inc The (plastics and die castings)	Hartford	
Clutches		Cord Sets—Electric	Bridgeport	Pratt & Whitney Div Niles-Bement-Pond Co (Monocone and Ducone Dies)	West Hartford	
Snow-Nabstedt Gear Corp The	New Haven	General Electric Company		Die Sinkers		
Clutch Facings		Cork Cots	Bridgeport	Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford	
Raybestos Division of Raybestos-Manhattan Inc (Molded, Woven, Semi-metallic and Full-metallic)	Bridgeport	Sonoco Products Co (Climax-Lowell Div)	Mystic	Dies and Die Sinking		
Russell Mfg Co The	Middletown	Corrugated Box Manufacturers		Consolidated Industries	West Cheshire	
Coils		Connecticut Container Corporation	New Haven	Dish Drying Machines		
Dano Electric Company	Winsted	Corrugated Containers Inc	Hartford	Colt's Manufacturing Company	Hartford	
Coils—Electric		Corrugated Shipping Cases		Dish Washing Machines		
Bittermann Electric Company	Canaan	Connecticut Container Corporation	New Haven	Colt's Manufacturing Company	Hartford	
Coils—Pipe or Tube		Connecticut Box Div Robert Gair Co Inc	Portland	Displays—Metal		
National Pipe Bending Co The	160 River St New Haven	D L & D Container Corp	87 Shelton Ave New Haven	Merriam Mfg Co (Contract Work to Individual Specifications)	Durham	
Whitlock Manufacturing Co The	Hartford	Cosmetic Containers		Distribution Centers		
Commercial Heat Treating		Evete Specialty Co The	Waterbury	Distribution Assemblies Department, General Electric Co	Plainville (Advt.)	
A F Holden Company The	52 Richard St West Haven	Plume & Atwood Mfg Co The (metal)	Waterbury			
Commercial Truck Bodies		Cosmetics	Glastonbury			
Metropolitan Body Company	Bridgeport	J B Williams Co The				
Comparators		Cotton and Asbestos Wicking	Hartford			
Pratt & Whitney Div Niles-Bement-Pond Co (Electro-limit and Air-O-Limit)	West Hartford	Bland Burner Co The				
Compressors						
Norwalk Company Inc (high pressure air and gas)	South Norwalk					

IT'S MADE IN CONNECTICUT

Door Closers		R W Cramer Company Inc The	Electric Time Controls	Envelopes—Stock and Special
Sargent & Company	New Haven	Centerbrook	American Paper Goods Company The	Kensington
Yale & Towne Mfg Co The	Stamford			
Dowel Pins	Hartford		Extractors—Tap	West Hartford
Allen Manufacturing Co The	West Hartford	Sessions Clock Co The	Walton Company The	West Hartford
Holo-Krome Screw Corp The				
Drafting Accessories	Hartford		Eyelets	Waterbury
Joseph Merritt & Co			American Brass Company The	Waterbury
Drill Presses	Elmwood	Sessions Clock Co The (small)	Platt Bros & Co The P O Box 1030	Waterbury
Townsend Mfg Co The H P			Plume & Atwood Mig Co The	Waterbury
Drilling Machines		General Electric Wire	Scovill Manufacturing Company	Waterbury 91
Pratt & Whitney Div Niles-Bement-Pond Co (Deep Hole)	West Hartford	Rockbestos Products Corp (asbestos insulated)		
Drilling and Tapping Machinery	Hartford	New Haven		
Hartford Special Machinery Co The				
Drop Forgings			Eylets, Ferrules and Wiring Terminals	Waterbury
Atwater Mfg Co	Plantsville	Electric Wiring Devices	American Brass Company The	Waterbury
Blakeslee Forging Company The	Plantsville	Arrow-Hart & Hegeman Electric Co The		
Capewell Mfg Company	Hartford	General Electric Company	Hartford	
Consolidated Industries	West Cheshire		Bridgeport	
Wilcox Crittenden & Co Inc	Middletown			
Duggists' Rubber Sundries	New Haven		Eylet Machine Products	Waterbury
Seamless Rubber Company The			American Brass Company The	Waterbury
Duplicating Machines—Automatic		Electrical Circuit Breakers	Ball & Socket Mfg Co The	West Cheshire
Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford	Federal Electric Products Co Inc	Plume & Atwood Mig Co	Waterbury
Electric Cables	New Haven			
Rockbestos Products Corp (asbestos insulated)		Electrical Conduit Fittings & Grounding		
		Gillette-Vibber Company The	New London	
Electric Clocks	Forestville	Specialties		
Sessions Clock Co The (alarm, kitchen, occasional and office)				
Electric—Commutators & Segments	Ansonia			
Cameron Elec Mfg Co The (rewinding motors)		Electrical Control Apparatus		
		Federal Electric Products Co Inc	Hartford	
Electric Cord Springs	Plainville	Plainville Electrical Products Co The	Plainville	
Bristol Spring Manufacturing Co				
Electric Cords				
General Electric Company	Bridgeport	Electrical Goods	A C Gilbert Co	New Haven
Rockbestos Products Corp (asbestos insulated)	New Haven			
Electric Eye Control	Middletown			
Ripley Company Inc		Electrical Motors	U S Electrical Motors Inc	Milford
Electric Fixture Wire				
General Electric Company	Bridgeport	Electrical Outlet and Switch Boxes, and	General Electric Company	Bridgeport
Rockbestos Products Corp (asbestos insulated)	New Haven	Covers		
Electric Hand Irons		Electrical Recorders	Bristol Co The	Waterbury
Winsted Hardware Mfg Co (trade mark "Durable")	Winsted			
Electric Heating Elements	Hartford	Electrical Relays and Controls	Allied Control Co	Plantsville
Hartford Element Co				
Electric Insulation		Electrical Switchboards	Plainville Electrical Products Co The	Plainville
Case Brothers Inc	Manchester			
Stevens Paper Mills Inc The	Windsor	Electrical Wiring Systems	Wiremold Co The	Hartford
Electric Lighting Fixtures		Electronics		
Fan-Craft Mfg Co (residential, church, post lanterns)	Plainville	Gray Manufacturing Company The	Ripley Co	Hartford
Plume & Atwood Mfg Co The	Waterbury		Middletown	Middlesex
Wasley Products Inc	Plainville	Sturrup Larabee & Warmers Inc	Middletown	Middlesex
Electric Motor Controls	The	Electroplating	National Sherardizing & Machine Co	Hartford
Arrow-Hart & Hegeman Electric Co	Hartford		Waterbury Plating Company	Waterbury
Electrical Outlet and Switch Boxes, and		Electroplating—Equipment & Supplies	Enthone Inc	New Haven
Covers			Lea Manufacturing Co The	Waterbury
General Electric Company	Bridgeport		MacDermid Incorporated	Waterbury
Electric Panel Boards	Hartford	Electroplating Processes & Supplies	Enthone Inc	New Haven
Federal Electric Products Co Inc			United Chromium Incorporated	Waterbury
Electric Safety Switches	Hartford	Electrotypes	Barnum-Hayward Electrotype Co Inc	
Federal Electric Products Co Inc			Lockwood Sons Inc Wm H	New Haven
Electric Shavers	Stamford		New Haven Electroteype Div	Hartford
Schick Incorporated			Electrographic Corp	New Haven
Electric Signs	Hartford	Elevators	Eastern Machinery Co The	(passenger and freight)
Berger Sign Co			General Elevator Service Co	New Haven
United Advertising Corp	New Haven		Enameling	Hartford
Electric Switches	The	Conn Metal Finishing Co		
Arrow-Hart & Hegeman Electric Co	Hartford	Waterbury Plating Company		
Electric Tack		Enameling and Finishing	Craiglow Mfg Co	Portland
Electric Timer				
Sessions Clock Co The		End Milling Cutters	Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford
Electric Timing Motors				
Sessions Clock Co The (small)		Engines	Pratt & Whitney Aircraft Div United Aircraft Corp (aircraft)	East Hartford
Electric Wire			Wolverine Motor Works Inc (diesel stationary marine)	Bridgeport
General Electric Company		Envelopes		
		Curtis 1000 Inc		
		United States Envelope Company		
		Hartford Division		
Eylets				
American Brass Company The				
Platt Bros & Co The P O Box 1030				
Plume & Atwood Mig Co The				
Scovill Manufacturing Company				
Eylets, Ferrules and Wiring Terminals				
American Brass Company The				
Eylet Machine Products				
American Brass Company The				
Ball & Socket Mfg Co The				
Plume & Atwood Mig Co				
Fancy Dress Buttons and Buckles				
Waterbury Companies Inc				
Fans—Electric				
General Electric Company				
Felt				
Auburn Manufacturing Company The (mechanical, cut parts)				
Drycor Felt Company (paper makers and industrial)				
Felt—All Purpose				
American Felt Co (Mill & Cutting Plant)				
Chas W House & Sons Inc (Mills & Cutting Plant)				
Fenders—Boat				
B F Goodrich Sponge Products Division				
Fibre Board				
Case Brothers Inc				
C H Norton Co The				
Stevens Paper Mills Inc The				
Finger Nail Clippers				
H C Cook Co The				
File Cards				
Standard Card Clothing Co The				
Films				
Cine-Video Productions Inc				
Firearms				
Colt's Manufacturing Company				
Marlin Firearms Co The				
O F Mosberg & Sons Inc				
Remington Arms Company Inc				
Winchester Repeating Arms Company Division				
Olin Industries Inc				
Fire Hose				
Fabrics Fire Hose (municipal and industrial)				
Fireplace Goods				
American Windshield & Specialty Co The				
881 Boston Post Road				
John P Smith Co The (screens)				
423-33 Chapel St				
Fireproof Floor Joists				
Dextone Co The				
Fireworks				
M Backes' Sons Inc				
Fishing Tackle				
Bevin-Wilcox Line Co The (lines)				
H C Cook Co The 32 Beaver St				
Flashlights				
Bond Electric Corporation Division of Olin Industries Inc				
Bridgeport Metal Goods Mfg Co				
Winchester Repeating Arms Company Division				
Olin Industries Inc				
Flat Springs				
Bristol Spring Manufacturing Co				
Flexible Shaft Machines				
Pratt & Whitney Div Niles-Bement-Pond Co				
West Hartford				

IT'S MADE IN CONNECTICUT

Floor & Ceiling Plates	Horton Mfg Co The	Golf Equipment	Heat Treating Salts and Compounds
Beaton & Cadwell Mfg Co The	New Britain	(clubs, shafts, balls, bags)	A F Holden Company The
Fluorescent Lighting Equipment		Bristol	52 Richard Street West Haven
Fullerton Manufacturing Corp	Norwalk		Mitchell-Bradford Chemical Co
Vanderman Manufacturing Co The	Willimantic		Bridgeport
Wiremold Company The	Hartford		
Foam Rubber			Heating and Cooling Coils
B F Goodrich Sponge Products Division	Shelton		G & O Manufacturing Co
Forgings			New Haven
Billings & Spencer Company	Hartford		
Clark Brothers Bolt Co	Milldale		Heating Elements
Consolidated Industries Inc	West Cheshire		Hartford Element Co
Heppenstall Co (all kinds and shapes)	Bridgeport		Heavy Chemicals
Scovill Manufacturing Company (Non-ferrous)	Waterbury 91		Naugatuck Chemical Division United States
			Rubber Co (sulphuric, nitric and muriatic acids and aniline oil)
Foundries			Naugatuck
Connecticut Malleable Castings Co (malleable iron castings)	New Haven		
Farrel-Birmingham Company Inc (Iron and Steel)	Ansonia		
Charles Parker Company The (iron, brass, bronze, aluminum)	Meriden		
Plainville Casting Company (gray, alloy and high tensile irons)	Plainville		
Product Machine Company The	Bridgeport		
Stamford Casting Company Inc (Aluminum, Magnesium and Bronze)	Stamford		
Turner & Seymour Mfg Co The (gray iron, semi steel and alloy)	Torrington		
Union Mfg Co (gray iron & semi steel)			
Wilcox Crittenden & Co Inc (iron, brass, aluminum and bronze)	Middletown		
Fountain Pens and Mechanical Pencils			Hinges
Waterman Pen Company Inc	Seymour		Homer D Bronson Company
Foundry Riddles			Beacon Falls
John P Smith Co The	423-33 Chapel St		
	New Haven		
Fuel Oil Pump and Heater Sets			Hobs and Hobbing
Peabody Engineering Corporation	Stamford		ABA Tool & Die Co
Furnaces			Manchester
Norwalk Airconditioning Corp The (warm air oil fired)	South Norwalk		Pratt & Whitney Div Niles-Bement-Pond Co
Furnace Linings			(Die and Thread Milling) West Hartford
Mullite Refractories Co The (refractories, super refractories)	Shelton		
Fuses—Plug and Cartridge			Hoists
General Electric Company	Bridgeport		J-B Engineering Sales Co
Gage Blocks			New Haven
Pratt & Whitney Div Niles-Bement-Pond Co (Alloy steel and Carbide, Hoke and USA)	West Hartford		Union Mfg Company
Galvanizing			Home Laundry Equipment
Malleable Iron Fittings Co	Bransford		General Electric Company
Wilcox Crittenden & Co Inc	Middletown		Bridgeport
Galvanizing & Electrical Plating			Hose—Flexible Metallic
Gillette-Vibber Co The	New London		American Brass Co
Gaskets			American Metal Hose Branch
Auburn Manufacturing Company The (from all materials)	Middletown		Waterbury
Raybestos Division of Raybestos-Manhattan Inc	Bridgeport		Hose Supporter Trimmings
Tsingris Die Cutting Corp (from all materials)	Waterbury		Hawie Mfg Co The (So-Lo Grip Tabs)
Gas Range Conversion Burner			Bridgeport
Holyoke Heater Corp of Conn Inc	Hartford		Hospital Signal Systems
Gas Scrubbers, Coolers and Absorbers			Conn Telephone & Electric Corp Subsidiary of Great American Industries Inc
Peabody Engineering Corporation	Stamford		Meriden
Gauges			Hydraulic Brake Fluids
Bristol Co The (pressure and vacuum—recording automatic control)	Waterbury		Eis Manufacturing Co
Helicoid Gage Division American Chain & Cable Co The (pressure and vacuum)	Bridgeport		Middletown
Manning Maxwell & Moore Inc	Stratford		Hydraulic Controls
Pratt & Whitney Div Niles-Bement-Pond Co (Precision Measurement all types)	West Hartford		Sperry Products Inc
Gears			Danbury
Mitrametric Co The (blanked fine pitch)	Torrington		Hypodermic Needles
Gears and Gear Cutting			Roehr Products Company
Farrel-Birmingham Company Inc	Ansonia		Waterbury
Fenn Mfg Co The	Newington		Ice Buckets
Hartford Special Machinery Co The	Hartford		B F Goodrich Sponge Products Division
Glass Blowing			Shelton
Macalaster Bicknell Company	New Haven		Inductors
Glass Cutters			C G S Laboratories Inc
Fletcher-Terry Co The	Forestville		Stamford
			Industrial Displays
			Sansone Co S Frederick (Designers Builders and Counselors)
			Short Beach
			Industrial Finishes
			Atlas Powder Co Zapon Div
			Chemical Coatings Corporation
			United Chromium Incorporated
			Industrial Tools—Powder Actuated
			Remington Arms Company Inc
			Bridgeport
			Infrared Equipment
			Leeds Electric and Mfg Co The
			Hartford
			Inks
			Waterman Pen Company Inc
			Seymour
			Insecticides
			American Cyanamid Company
			Waterbury
			Insecticide Bombs
			Bridgeport Brass Company (Aer-a-sol)
			Bridgeport
			Insulated Wire & Cable
			General Electric Company
			Bridgeport
			Kerite Company The
			Seymour
			Insulated Wire & Cable Machinery
			Davis Electric Company
			Wallingford
			Instruments
			Bristol Company The
			J.P.T. Instruments Inc (Electrical and Temperature)
			New Haven
			Manning Maxwell & Moore Inc
			Stratford
			Pratt & Whitney Div Niles-Bement-Pond Co (Precision Measuring)
			West Hartford
			Insulation
			Gilman Brothers Co The
			Gilman (Advt.)

IT'S MADE IN CONNECTICUT

Inter-Communications Equipment	Leather Dog Furnishings	Machinery
Conn Telephone & Electric Corp Subsidiary of Great American Industries Inc Meriden	Andrew B Hendryx Co The New Haven The Smith-Worthington Saddlery Co Hartford	Fenn Manufacturing Company The (special) Newington
Interval Timers	Leather Goods Trimmings	Globe Tapping Machine Company (dial type drilling and tapping) Bridgeport
Lux Clock Manufacturing Company Waterbury Rhodes Inc M H	G E Prentice Mfg Co The Kensington	Hallden Machine Company The (mill) Thomaston
Ironing Machines—Electric	Leather, Mechanical	Torrington Manufacturing Co The (mill) Torrington
General Electric Company Bridgeport	Auburn Manufacturing Company The (packagings, cubs, washers, etc) Middletown	
Jacquard	Letterheads	
Case Brothers Inc Manchester	Lehman Brothers Inc (designers, engravers, lithographers) New Haven	
Japanning	Lighting Accessories—Fluorescent	
J H Sessions & Son Bristol	General Electric Company Bridgeport	
Jig Borer	Lighting Equipment	
Moore Special Tool Co (Moore) Bridgeport Pratt & Whitney Div Niles-Bement-Pond Co West Hartford	Fullerton Manufacturing Corp Norwalk Miller Co The (Miller, Duplexalite, Ivanhoe) Meriden	
Jig Grinder	Lime	
Moore Special Tool Co (Moore) Bridgeport	New England Lime Company Canaan	
Keller Machines	Lipstick Containers	
Pratt & Whitney Div Niles-Bement-Pond Co West Hartford	Bridgeport Metal Goods Mfg Co Bridgeport Plume & Atwood Manufacturing Co Waterbury	
Key Blanks	Lithographers	
Sargent & Company New Haven Yale & Towne Mfg Co The Stamford	O'Toole & Sons Inc T Stamford	
Labels	Lithographing	
J & J Cash Inc (Woven) South Norwalk Naugatuck Chemical Division United States Rubber Co (for rubber articles) Naugatuck	Kellogg & Bulkeley A Division of Connecticut Printers Inc Hartford	
Label Moisteners	Locks—Banks	
Better Packages Inc Shelton	Lehman Brothers Inc New Haven	
Laboratory Equipment	Locks—Builders	
Eastern Industries Inc New Haven	A D Steinbach & Sons New Haven	
Laboratory Supplies	Locks—Cabinet	
Macalaster Bicknell Company New Haven	Eagle Lock Co The Terryville	
Laces	Locks—Special Purpose	
American Fabrics Company The Bridgeport Wilcox Lace Corporation The Middletown	Eagle Lock Co The Terryville	
Laces and Nettings	Locks—Suitcase	
Wilcox Lace Corporation The Middletown	Eagle Lock Co The Terryville	
Lacquers & Synthetic Enamels	Locks—Suit-Case and Trimmings	
Atlas Powder Co Zapon Div Stamford Chemical Coatings Corporation Rocky Hill United Chromium Incorporated Waterbury	Excelsior Hardware Co The Stamford	
Ladders	Locks—Trunk	
A W Flint Co 196 Chapel St New Haven	Eagle Lock Co The Terryville	
Lamps	Loom—Non-Metallic	
Plume & Atwood Mfg Co The (metal oil) Waterbury	Excelsior Hardware Co The Stamford	
Lampholders—Incandescent and Fluorescent	Lumber & Millwork Products	
General Electric Company Bridgeport	City Lumber Co of Bridgeport Inc Bridgeport	
Lamp Shades	Machetes	
Verplex Company The Essex	Collins Company The Collinsville	
Lathes—Contin-U-Matic	Machine Design	
Bullard Company The (vertical multi-spindle-continuous turning type) Bridgeport	Black Rock Mfg Company The Bridgeport	
Lathes—30H Man-Au-Trol	Machine Tools	
Bullard Company The (horizontal 3 spindle) Bridgeport	Bullard Company The Bridgeport Pratt & Whitney Div Niles-Bement-Pond Co West Hartford	
Lathes—Multi-Au-Matic	Machine Work	
Bullard Company The (vertical multi-spindle-indexing type) Bridgeport	Products Machine Company The Bridgeport	
Lathes—Toolroom and Automatic	Black Rock Mfg Company The	
Pratt & Whitney Div Niles-Bement-Pond Co West Hartford	Farrel-Birmingham Company Inc Ansonia Fenn Manufacturing Company The (precision Newton parts)	
Lathes—Vertical Turret	Hartford Special Machinery Co The (contract work only)	
Bullard Company The (single spindle) Bridgeport	National Shredizing & Machine Co (job) Hartford	
Laundry Roll Covers	Parker Stamp Works Inc The (Special) Hartford	
Atlas Powder Co Zapon Div Stamford	Swan Tool & Machine Co The Hartford Torrington Manufacturing Co The (special rolling mill machinery) Torrington	
Lead Plating		
Christie Plating Co The Groton		
Leather		
Herman Roser & Sons Inc (Genuine Pigskin) Glastonbury		

IT'S MADE IN CONNECTICUT

Machines—Precision Boring	American Brass Company The	Nickel Silver Ingot
New Britain-Gridley Machine Division The New Britain Machine Co New Britain	Autoyre Co The (Small)	Whipple and Choate Company The Bridgeport
Machines—Rolling	Bridgeport Chain & Mfg Co	Night Latches
Fenn Manufacturing Company The Newington	DooVal Tool & Mfg Inc The	Sargent & Company New Haven Yale & Towne Mfg Co Inc Stamford
Machine—Slotting	Excelsior Hardware Co The	Non-ferrous Metal Castings
Globe Tapping Machine Company The (High Production Screw Head Slotting) Bridgeport	Greist Mfg Co The 503 Blake St New Haven	Miller Company The Meriden Charles Parker Co Meriden
Waterbury Farrel Foundry & Machine Co The (screw head) Waterbury	H C Cook Co The 32 Beaver St Ansonia	Nuts, Bolts and Washers
Machines—Special	Humason Mfg Co The	Clark Brothers Bolt Co Milldale
Fenn Mfg Co The Newington	J A Otterbein Company The (metal fabrications)	Office Equipment
Builer Brush Co The Hartford	Middletown	Pitney-Bowes Inc Stamford Underwood Corporation Bridgeport & Hartford
Machines—Swaging	J. H. Sessions & Son	Offset Printing
Fenn Manufacturing Company The Newington	Patent Button Co The	Kellogg & Bulkeley A Division of Connecticut Printers Inc Hartford
Machines—Thread Rolling	G E Prentice Mfg Co The	Oil Burners
Hartford Special Machinery Co The Hartford	Plume & Atwood Mfg Co The	Miller Company The (domestic) Meriden Pearlody Engineering Corp (Mechanical and/or Steam Atomizer) Stamford
Waterbury Farrel Foundry & Machine Co The Waterbury	Saling Manufacturing Company	Silent Glow Oil Burner Corp The Hartford
Machines—Turks Head	Stanley Pressed Metal	1477 Park St
Fenn Manufacturing Company The Newington	United States Rubber Company	Oil Tanks
Machines—Well Drilling	Watt Tool & Machine Co The	Norwalk Tank Co The (550 to 30M gals, underwriters above and under ground) South Norwalk
Consolidated Industries West Cheshire	Hartford	Whitlock Manufacturing Co The Hartford
Machines—Wire Drawing	Verplex Company The (Contract)	Oils—Cutting
Fenn Manufacturing Company The Newington	Waterbury Lock & Specialty Co The	Anderson Oil Co Inc F E Portland
Magnesium Castings	Waterbury	Open Knife Switches and Accessories
Stamford Casting Company Stamford	Milford	Trumbull Components Department, General Electric Co Plainville
Manicure Instruments	Meters—Gas	Optical Cores & Ingots
W E Bassett Company The Derby	Sprague Meter Company	Plume & Atwood Mfg Co The Thomaston
Manganese Bronze Ingot	Rhodes Inc M H	Otis Woven Awning Stripes
Whipple and Choate Company Bridgeport	Meters—Parking	The Fall's Company Norwich
Marine Engines	American Microfilming Service Company	Outlets—Electric
Killborn-Sauer Company (running lights and searchlights) Fairfield	New Haven	General Electric Company Bridgeport
Lathron Engine Co The Mystic	Microscope—Measuring	Ovens—Electric
Marine Equipment	Lundeberg Engineering Company	Bauer & Company Inc Hartford
Russell Manufacturing Company The (utility cord and accessory hardware) Middletown	Milk Bottle Carriers	Package Sealers
Wilcox Crittenden & Co Inc Middletown	John P Smith Co The 423-33 Chapel St New Haven	Better Packages Inc Shelton
Marine Reserve Gears	Millwork	Packaging Machinery
Snow-Nabstdt Gear Corp The New Haven	Hartford Builders Finish Co	Colt's Manufacturing Company (box making machinery. Trade mark "Rite Size") Hartford
Marking Devices	Milling Machines	Packing
Hoggson & Pettis Mfg Co The New Haven	Pratt & Whitney Div Niles-Bement-Pond Co (Keller Tracer—Controlled Milling Machines)	Auburn Manufacturing Company The (leather, rubber, asbestos, fibre) Middletown
Parker Stamp Works Inc The (steel) Hartford	West Hartford	Raybestos Division of Raybestos-Manhattan Inc (Asbestos and Rubber Sheet) Bridgeport
Mats—Newspaper	Rowbottom Machine Company Inc (cam) Waterbury	Pads—Office
Lockwood Sons Inc Wm H Hartford	Mixing Equipment	The Baker Goodyear Company New Haven
Mattresses	Eastern Industries Inc New Haven	Padlocks
Waterbury Mattress Co Waterbury	Gabb Special Products Div. The E. Horton & Son Co Windsor Locks	Sargent & Company New Haven Waterbury Lock & Specialty Co The Milford Yale & Towne Mfg Co Inc Stamford
Metal Boxes and Displays	Mops	Paints and Enamels
Durham Manufacturing Company The Durham	Hartford	Staminate Corp The New Haven
Merriam Mfg Co (Bond, Security, Cash, Utility, Personal Files, Drawer Safes, Custombuilt containers and displays) Durham	Motor Control Centers	Panta
Charles Parker Co (sheet metal fabricators) Meriden	Distribution Assemblies Department, General Electric Co Plainville	Moore Special Tool Co (crush wheel dresser) Bridgeport
Metal Cleaners	Moulded Plastic Products	Panelboards—Lighting and Distribution
Apothecaries Hall Co Waterbury	Butterfield Inc T F Naugatuck	Distribution Assemblies Department, General Electric Co Plainville
Enthone Inc New Haven	Colt's Manufacturing Company Hartford	Gair Company Inc Robert Montville Robertson Paper Box Co Montville
MacDermid Incorporated Waterbury	Patent Button Co The Waterbury	New Haven Pulp and Board Co The New Haven
Metal Cleaning Machines	Watertown Mfg Co The 117 Echo Lake Road Watertown	Paperboard
Colt's Manufacturing Company Hartford	Mouldings	Atlantic Carton Corp (folding) Norwich Gair Co Inc Robert (folding) Montville
Metal Finishes	Himmel Brothers Co The (architectural, metal and store front)	National Folding Box Co Inc (folding) New Haven
Enthone Inc New Haven	Moulds	New Haven Board and Carton Co The New Haven
Mitchell-Bradford Chemical Co Bridgeport	ABA Tool & Die Co Manchester	Mills Inc H J New Haven Robertson Paper Box Co (folding) Montville
United Chromium Incorporated Waterbury	Hoggson & Pettis Mfg Co The (steel) 114 Brewery St New Haven	Paper Boxes—Folding and Setup
Metal Finishing	Lundeberg Engineering Company (plastics) Hartford	Bridgeport Paper Box Company Bridgeport M Backes' Sons Inc Wallingford
National Sherdizing & Machine Co Hartford	Parker Stamp Works Inc The (compression injection & transfer for plastics) Hartford	Paper Clips
Waterbury Plating Company Waterbury	Napper Clothing	11 C Cook Co The (steel) 32 Beaver St Ansonia (Advt.)
Metal Formings	Standard Card Clothing Co The (for textile mills) Stafford Springs	
Master Engineering Company West Cheshire	Nettings	
Stanley Pressed Metal New Britain	Wilcox Lace Corp The Middletown	
Metalizing	Newspaper Mats	
Conn Metal Finishing Co Hamden	Lockwood Sons Inc Wm H Hartford	
Metal Novelties	Nickel Anodes	
H C Cook Co The 32 Beaver St Ansonia	Apothecaries Hall Co Waterbury	
Metal Products—Stampings	Seymour Mfg Co The Seymour	
American Brass Company The Waterbury	Nickel Silver Waterbury	
Plume & Atwood Manufacturing Co Waterbury	Plume & Atwood Mfg Co The Thomaston	
J H Sessions & Son Bristol	Seymour Mfg Co The Seymour	
Scovill Manufacturing Company (Made-to-Order) Waterbury 91	Waterbury Rolling Mills Inc (sheets, strips, rolls) Waterbury	
Stanley Pressed Metal New Britain	Western Brass Mills Division of Olin Industries Inc (sheet, strip) New Haven	
Metal Specialties		
Excelsior Hardware Co The Stamford		

IT'S MADE IN CONNECTICUT

Paper Mill Machinery		Plastic—Moulders		Printing Machinery
Farrel-Birmingham Company Inc	Ansonia	Colt's Manufacturing Company	Hartford	Banthin Engineering Co (automatic)
Paper Tags and Pin Tickets		Conn Plastics	Waterbury	Thomas W Hall Company
Waterbury Buckle Co	Waterbury	General Electric Company	Meriden	
Paper Tubes and Cores		Waterbury Companies Inc	Waterbury	Printing Plates
Sonoco Products Co (Climax-Lowell) Div	Mystic	Watertown Mfg Co The	Watertown	Lockwood Sons Inc Wm H
Parallel Tubes		Plastics—Moulds & Dies		Printing Rollers
Sonoco Products Co (Climax-Lowell) Div	Mystic	Parker Stamp Works Inc The (for plastics)	Hartford	Chambers-Storch Company Inc The (engraved)
Parkerizing		Plasticrete Corp	Hamden	Production Control Equipment
Claiglow Mfg Company	Portland	Plates—Switch		Ripley Company Inc
Parking Meters		General Electric Company	Bridgeport	Production Welding
Rhodes Inc M H	Hartford	Platers		Consolidated Industries
Passenger Car Sander		American Metal Products Company Inc	Bridgeport	Profilers
Conn Telephone & Electric Corp Subsidiary of Great American Industries Inc	Meriden	Christie Plating Co	Groton	Pratt & Whitney Div Niles-Bement-Pond Co
Pattern-Makers		City Plating Works	Bridgeport	West Hartford
Farrel-Birmingham Company Inc	Ansonia	Patent Button Co The	Waterbury	Propellers—Aircraft
Penlights		Waterbury Plating Company	Waterbury	Hamilton Standard Div United Aircraft Corp (propellers and other aircraft equipment)
Bridgeport Metal Goods Mfg Co	Bridgeport	Chromium Process Company The	(Chromium Derby)	Windsor Locks
Pet Furnishings		Plating only)		
Andrew B Hendrix Co The	New Haven	Platers' Equipment		Protective Coatings
Pharmaceutical Specialties		Apothecaries Hall Company	Waterbury	Harrison Company The A S (Waxes)
Ernst Bischoff Company Inc	Ivoryton	Conn Metalcraft Inc	New Haven	South Norwalk
Phosphor Bronze		Lea Manufacturing Co The	Waterbury	Publishers
American Brass Company The	Waterbury	MacDermid Incorporated	Waterbury	O'Toole & Sons Inc T
Miller Company The (sheets, strips, rolls)	Meriden	Platers' Metal		Pumps
Seymour Mfg Co The	Seymour	Plume & Atwood Mfg Co The	Thomaston	Yale & Towne Mfg Co The
Waterbury Rolling Mills Inc (sheets, strips, rolls)	Waterbury	Plating		Stamford
Western Brass Mills Division of Olin Industries Inc (sheet, strip)	New Haven	Christie Plating Co The (including lead plating)	Groton	Pumps—Small Industrial
Phosphor Bronze Ingots		Conn Metal Finishing Co	Hamden	Eastern Industries Inc
Whipple and Choate Company The	Bridgeport	Plating Processes and Supplies		New Haven
Photographic Equipment		Enthono Inc	New Haven	Pump Valves
Kalart Company Inc	Plainville	United Chromium Incorporated	Waterbury	Colt's Manufacturing Company
Piano Repairs		Plumbers' Brass Goods		Hoggson & Pettis Mfg Co The (ticket & cloth)
Pratt Read & Co Inc (keys and action)	Ivoryton	Bridgeport Brass Co	Bridgeport	141 Brewery St
Piano Supplies		Keeney Mfg Co The (special bends)	Newington	New Haven
Pratt Read & Co (keys and actions, backs, plates)	Ivoryton	Scovill Manufacturing Company	Waterbury 48	Punches
Pins		Piping Specialties		Fletcher Terry Co The
QEM Company ("Spirol")	Danielson	John M Russell Mfg Co Inc	Naugatuck	Box 415 Forestville
Pin Up Lamps		Pole Line Hardware		Pyrometers
Verplex Company The	Essex	Malleable Iron Fittings Co	Branford	Bristol Co The (recording and controlling)
Pipe		The Smith-Worthington Saddlery Co	Hartford	Waterbury
American Brass Co The (brass and copper)	Waterbury	Polishing Wheels		Radiation—Finned Copper
Bridgeport Brass Co (brass and copper)	Bridgeport	Williamsville Buff Div The	Bullard Clark Company	Bush Manufacturing Co
Chas Brass & Copper Co (red brass and copper)	Waterbury	Darwath Incorporated ("Cuprinol")	Clark Danielson	West Hartford
Howard Co (cement well and chimney)	New Haven	Poly Choke Company The (a shotgun choking device)	Tariffville	G & O Manufacturing Company
Pipe Fitter's Hand Tools & Machines		Pitney Bowes Inc	Stamford	New Haven
Capewell Mfg Co The	Hartford	Potentiometers—Electronic		Vulcan Radiator Co The (steel and copper)
Pipe Fittings		Bristol Company The	Waterbury	Hartford
Corley Co Inc	Plainville	Consolidated Industries Inc	West Cheshire	Radiators—Engine Cooling
Malleable Iron Fittings Co	Branford	Prefabricated Buildings		G & O Manufacturing Co
Pipe Plugs		City Lumber of Bridgeport Inc The	Bridgeport	New Haven
Holo-Krome Screw Corporation	The (counter-sunk)	Waterbury Companies Inc	Waterbury	Rayon Staple Fiber
Pipe Plugs—Socketed		Premium Specialties		Hartford Rayon Corp The
Holo-Krome Screw Corp The	West Hartford	Preservatives—Wood, Rope, Fabric		Rocky Hill
Plastics		Darwath Incorporated ("Cellu-san")	Simsbury	Reamers
B F Goodrich Sponge Products Division	Shelton	Press Papers		Pratt & Whitney Div Niles-Bement-Pond Co
Naugatuck Chemical Division	United States	Case Brothers Inc	Manchester	West Hartford
Rubber Co	Naugatuck	Farrel-Birmingham Company Inc	(Hydraulic Ansonia	Recorders
Plastic Buttons		Presses—Molding		Bristol Co The (automatic controllers, temperature, pressure, flow, humidity)
Frank Parizel Manufacturing Co The	West Willington	Standard Machinery Co The (compression and transfer molding, automatic and semi-automatic)	Mystic	Waterbury
Patent Button Co The	Waterbury	Waterbury Farrel Foundry & Machine Co The	Waterbury	Reduction Gears
Plastic Gems		Presses—Power		Farrel-Birmingham Company Inc
Colt's Manufacturing Company	Hartford	Norwalk Tank Co Inc The (unfired to ASME Code Par U 69-70)	South Norwalk	Ansonia
Plastic Materials		Whitlock Manufacturing Co The	Hartford	Snow-Nabstedt Gear Corp The
American Cyanamid Co (Molding Compounds, Adhesives, Laminating Resins)	Wallingford	Pressure Vessels		New Haven
Plastic Printing Plates		Case Lockwood & Brainard A Division of Connecticut Printers Inc	Hartford	Resistance Wire
Lockwood Sons Inc Wm H	Hartford	Finlay Brothers	Hartford	C O Jeliff Mfg Co The (nickel chromium, copper nickel, iron chromium, aluminum)
Plastics Machinery		Heminway Corporation The	Waterbury	South Norwalk
Black Rock Mfg Company The	Bridgeport	Hildreth Press	Bristol	Kanthal Corporation The
Farrel-Birmingham Company Inc	Ansonia	Hunter Press	Hartford	Stamford
Plastic Molders		Lehman Brothers Inc	New Haven	Respirators
Plastic Molding Corporation	Sandy Hook	Taylor & Greenough Co The	Wethersfield	American Optical Company Safety Products Division
Plastic Molding		T B Simonds Inc	Hartford	Putnam
Butterfield, Inc T F	Naugatuck	A D Steinback & Sons	New Haven	Retainers
U S Plastic Molding Corporation	Wallingford	The Walker-Rackliff Company	New Haven	Hartford Steel Ball Co The (bicycle & automotive)
				Riveting Machines
				Grant Mfg & Machine Co The
				Bridgeport Ripley Company Inc
				Middletown H P Townsend Manufacturing Co The
				Elmwood (Adv.)

IT'S MADE IN CONNECTICUT

Rivets
 Blake & Johnson Co The (brass, copper and
 non-ferrous) Waterville
 Clark Brothers Bolt Co Milldale
 Plume & Atwood Mfg Co The Waterbury
 Raybestos Div of Raybestos-Manhattan Inc The
 (brass and aluminum tubular and solid cop-
 per) Bridgeport
 Raybestos Div of Raybestos-Manhattan Inc The
 (iron) Bridgeport

Rods

American Brass Company The (copper, brass,
 bronze) Waterbury
 Bristol Brass Corp The (brass and bronze) Bristol
 Scovill Manufacturing Company (brass and
 bronze) Waterbury 91
Rollers—Bituminous Paving
 Gabb Special Products Div E. Horton & Son
 Company Windsor Locks

Roller Skate Wheels

Raybestos Division of Raybestos-Manhattan
 Inc Bridgeport

Roller Skates

Winchester Repeating Arms Company Division
 Olin Industries Inc New Haven

Rolling Mills and Equipment

Farrel-Birmingham Company Inc Ansonia
 Fenn Mfg Co The Newington
 Waterbury Farrel Foundry & Machine Co The
 Waterbury

Rolls

Farrel-Birmingham Company Inc (Chilled and
 Alloy Iron, Steel) Ansonia

Rope Wire

American Steel & Wire Div of U S Steel
 New Haven

Rubber Chemicals

Naugatuck Chemical Division United States
 Rubber Co Naugatuck
 Stamford Rubber Supply Co The ("Factice")
 Vulcanized Vegetable Oils) Stamford

Rubber—Cellular

B F Goodrich Sponge Products Division Shelton

Rubber Cutting Machinery

Black Rock Mfg Company The Bridgeport

Rubber Printing Plates

Lockwood Sons Inc Wm H Hartford

Rubberized Fabrics

Duro-Gloss Rubber Co The New Haven

Rubber Footwear

Goodyear Rubber Co The Middletown

Rubber Gloves

Seamless Rubber Company The New Haven

Rubber—Handmade Specialties

Seamless Rubber Company The New Haven

Rubber—Latex Foam

B F Goodrich Sponge Products Division Shelton

Rubber Latex Compounds and Dispersions

Naugatuck Chemical Division United States
 Rubber Co (coating, impregnating and adhe-
 sive compounds) Naugatuck

Rubber Mill Machinery

Farrel-Birmingham Company Inc Ansonia

Rubber—Molded Specialties

Canfield Co The H O Bridgeport

Seamless Rubber Company The New Haven

Rubber Products—Mechanical

Auburn Manufacturing Company The (washers,
 gaskets, molded parts) Middletown

Canfield Co The H O Bridgeport

Seamless Rubber Company The New Haven

Rubber—Reclaimed

Naugatuck Chemical Division United States

Rubber Co Naugatuck

Rubbers

Naugatuck Chemical Div U S Rubber Co
 (special synthetic) Naugatuck

Rubbish Burners

John P Smith Co The 423-33 Chapel St

New Haven

Rust Preventives

Anderson Oil Co Inc F E Portland

Saddlery

The Smith-Worthington Saddlery Co Hartford

Safety Clothing

American Optical Company Safety Products

Division Putnam

Safety Fuses

Ensign-Bickford Co The (mining & detonating)

Simsbury

Safety Gloves and Mittens
 American Optical Company Safety Products Putnam

Safety Goggles
 American Optical Company Safety Products Putnam

Safety Switches
 Trumbull Components Department, General Plainville

Saw Blades—Hack
 Capewell Mfg Co The Hartford

Saws—Metal & Wood Cutting Band
 Capewell Mfg Co The Hartford

Saws, Band, Metal Cutting
 Atlantic Saw Mfg Co New Haven

Scales—Industrial Dial
 Kron Company The Bridgeport

Scissors
 Acme Shear Company The Bridgeport

Screens
 Hartford Wire Works Co The (Windows, Doors
 and Porches) Hartford

Screw Caps
 Weimann Bros Mfg Co The (small for bottles)
 Derby

Screw Machine Accessories
 Barnaby Manufacturing and Tool Co Bridgeport

Screw Machines
 H P Townsend Mfg Company The Elmwood

Screw Machine Products
 Apex Tool Co Inc The Bridgeport

Blake & Johnson Co The
 Waterville

Consolidated Industries
 Eastern Machine Screw Corp The West Cheshire

Eastern Machine Screw Corp The
 Truman & Barclay Sts New Haven

Fairchild Screw Products Inc
 Winsted

Franklin Screw Machine Co The (up to 1 1/4"
 capacity) Hartford

Greist Mfg Co The (Up to 1 1/4" capacity)
 New Haven

Horberg Grinding Industries Inc (heat treated
 and ground type only) Bridgeport

19 Staples Street
 Humason Mfg Co The Forestville

Kerrin Company
 West Haven

Lowe Mfg Co The Wethersfield

National Automatic Products Company The
 Berlin

Nelson's Screw Machine Products Plantsville

New Britain Machine Company The New Britain

Olson Brothers Company (up to 3/4" capacity)
 Plainville

Olson & Sons R P Plainville

Peck Spring Co The Plainville

Plume & Atwood Mfg Co The Waterbury

Scovill Manufacturing Company Waterbury 91

Waterbury Machine Tools & Products Co
 (Brown & Sharpe and Davenport) Waterbury

Screw Machine Tools
 American Can Company Inc (Circular Form
 Tools) Hartford

Pratt & Whitney Div Niles-Bement-Pond Co
 (Reamers, Taps, Dies, Blades and Knurls)
 West Hartford

Somma Tool Co (precision circular form tools)
 Waterbury

Screws
 American Screw Company Willimantic

Atlantic Screw Works (wood) Hartford
 Blake & Johnson Co The (machine and wood)
 Waterville

Bristol Company The (socket set and socket cap
 screws) Waterbury

Clark Brothers Bolt Co Milldale

Eagle Lock Co The Terryville

Holo-Krome Screw Corporation The (socket set
 and socket cap) West Hartford

Merrow Machine Co The (Industrial) Hartford

Singer Manufacturing Company The (Sewing
 Machine attachments) Bridgeport

Sewing Machines
 Greist Mfg Co The (Sewing Machine attach-
 ments) 503 Blake St New Haven

Merrow Machine Co The (Industrial) Hartford

Singer Manufacturing Company The (Sewing
 Machine attachments) Bridgeport

Shaving Soaps
 J B Williams Co The Glastonbury

Shears
 Acme Shear Co The (household) Bridgeport

Shells
 Wolcott Tool and Manufacturing Company Inc Waterbury

Sheet Metal Products
 American Brass Co The (brass and copper)
 Merriam Mfg Co (security boxes, fitted tool
 boxes, tackle boxes, displays) Durham

Charles Parker Co (sheet metal fabricators)
 Meriden

Plume & Atwood Mfg Co The Waterbury
 United Manufacturing Co Division of The
 W L Maxson Corp Hamden

Sheet Metal Stampings
 American Brass Company The Waterbury

American Buckle Co The West Haven

Dow-Van Tool & Mfg Inc The Naugatuck

J H Sessions & Son Bristol

Patent Button Co The Waterbury

Plume & Atwood Mfg Co The Waterbury

Shipment Sealers
 Better Packages Inc Shelton

Showcase Lighting Equipment
 Wiremold Company The Hartford

Signals
 H C Cook Co The (for card files)
 32 Beaver St Ansonia

Signs
 Berger Sign Co (neon electric-porcelain enamel-
 stainless steel) Hartford

Silk Screening on Metal
 Merriam Mfg Co (Displays and Specialties, to
 order) Durham

Sintered Metal Products
 Raybestos Division of Raybestos-Manhattan
 Inc Bridgeport

Sizing and Finishing Compounds
 American Cyanamid Company Waterbury

Slide Fasteners
 G E Prentice Mfg Co The Kensington

North & Judd Manufacturing Co New Britain

Patent Button Co The Waterbury

Slings
 American Steel & Wire Div of U. S. Steel
 New Haven

Smoke Stacks
 Bigelow Company The (steel) New Haven

South Norwalk Tank Co The South Norwalk

Soap
 J B Williams Co The (industrial soaps, toilet
 soaps, shaving soaps) Glastonbury

Special Machinery
 Black Rock Mfg Company The Bridgeport

Farrel-Birmingham Company Inc Ansonia

Fenn Mfg Co The Newington

Greist Mfg Co The (small machines, especially
 precision stampings) New Haven

J H Sessions & Son Bristol

Special Tool & Dies
 Lundeberg Engineering Company Hartford

Spinnings
 American Metal Products Company Inc Bridgeport

Gray Manufacturing Company The Hartford

Spline Milling Machines
 Townsend Mfg Co The H P Elmwood

Sponge Rubber
 B F Goodrich Sponge Products Division Shelton

Spray Painting Equipment and Supplies
 Lea Manufacturing Co The Waterbury

Spring Coiling Machines
 Torrington Manufacturing Co The Torrington

Spring Presses
 Townsend Mfg Co The H P Elmwood

Spring Units
 Owen Silent Spring Division American Chain
 & Cable Company Inc Bridgeport

(Advt.)

IT'S MADE IN CONNECTICUT

Spring Washers	H C Thompson Clock Co The	Bristol	Thin Gauge Metals
Barnes Co The Wallace Div Associated Spring Corp	R A E Storage Battery Mfg Co	Glastonbury	Plume & Atwood Mfg Co The Thinsheet Metals Co The (plain or tinned in rolls)
Springs—Coil & Flat	Auburn Manufacturing Company	The (textile, industrial, slate, carriage)	Waterbury
Barnes Co The Wallace Div Associated Spring Corp	Waterbury Mattress Co	Waterbury	Thread
Bristol Spring Manufacturing Co	Mullite Refractories Company The	Shelton	American Thread Co The Helding Heminway Corticelli
Foursome Manufacturing Co	Wiremold Company The	Hartford	Putnam
Humason Mfg Co The	Seamless Rubber Company The	New Haven	Max Pollack & Co Inc Groton and Willimantic
Newcomb Spring Corp The	Surgical Dressings	Hartford	Wm Johl Manufacturing Co
New England Spring Manufacturing Company	Acme Cotton Products Co Inc	East Killingly	Mystic
Peck Spring Co The	Seamless Rubber Company The	New Haven	Thread Gages
Springs—Flat	Fenn Mfg Co The	Newington	Pratt & Whitney Div Niles-Bement-Pond Co
Barnes Co The Wallace Div Associated Spring Corp	Hartford Special Machinery Co The	Hartford	West Hartford
Bristol Spring Manufacturing Co	Distribution Assemblies Department, General Electric Co	Plainville	Thread Milling Machines
Foursome Manufacturing Co	Rockbestos Products Corp (asbestos insulated)	New Haven	Pratt & Whitney Div Niles-Bement-Pond Co
Humason Mfg Co The	Synchronous Motors	Centerbrook	West Hartford
D R Templeman Co (coil and torsion)	American Cyanamid Co (Textile Resins, Paper Resins)	Waterbury	Thread Rolling Machinery
J W Bernston Company (coil and torsion)	Tabulating Equipment—Manual	Woodbury	Hartford Special Machinery Co The
Newcomb Spring Corp The	Tags	Waterbury	Threading Machines
Springs—Furniture	Waterbury Buckle Co (Paper and Cloth)	Waterbury	Grant Mfg & Machine Co The (double and automatic)
Owen Silent Spring Division American Chain & Cable Company Inc	Tanks	Waterbury	Timers, Interval
Springs—Wire	Bigelow Company The (steel)	New Haven	A W Haydon Co The
Barnes Co The Wallace Div Associated Spring Corp	Norwalk Tank Co The	South Norwalk	H C Thompson Clock Co The
Bristol Spring Manufacturing Co	Rolock Inc (Alloy)	Fairfield	R W Cramer Company Inc The
Colonial Spring Corporation The (compression, extension, torsion)	Storts Welding Company (steel and alloy)	Meriden	Rhodes Inc M H
Connecticut Spring Corporation The	Tape	Middletown	Timing Devices
Foursome Manufacturing Co	Russell Manufacturing Company The (woven cotton and woven glass tape)	Middletown	A W Haydon Co The
Humason Mfg Co The	Tapes—Industrial Pressure Sensitive	New Haven	Lux Clock Manufacturing Company
D R Templeman Co (coil and torsion)	Seamless Rubber Company The	Waterbury	M H Rhodes Inc
J W Bernston Company (coil and torsion)	Tape Recorders	Meriden	Tinning
Newcomb Spring Corp The	Conn Telephone & Electric Corp Subsidiary of Great American Industries Inc	Meriden	Thinsheet Metals Co The (non-ferrous metals in rolls)
Springs—Wire & Flat	Tape Recorder Magazines	Meriden	Waterbury
Autoyre Company The	Conn Telephone & Electric Corp Subsidiary of Great American Industries Inc	Meriden	Wilcox Crittenden & Co Inc
Stamped Metal Products	Tap Extractors	West Hartford	Tools
American Brass Company The	Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford	Billing & Spencer Company (wrenches, sockets and shop tools)
Stamps	Tarred Lines	Moodus	Hartford
Hoggson & Pettis Mfg Co The (steel)	Brownell & Co Inc	Moodus	Hoggson & Pettis Mfg Co The (rubber workers)
141 Brewery St	Telemetering Instruments	Waterbury	141 Brewery St
Parker Stamp Works Inc The (steel)	Bristol Co The	Waterbury	Tool Chests
Stampings	Telephone Answering & Recording Machines	Waterbury	Vanderman Manufacturing Co The
American Metal Products Company Inc	Conn Telephone & Electric Corp Subsidiary of Great American Industries Inc	Meriden	Tool & Dies
Donahue Mfg Co Inc	Textile Machinery	Meriden	Moore Special Tool Co
DooVal Tool & Mfg Inc The	Meriden	Meriden	Swan Tool & Machine Co The
Foursome Manufacturing Co	Textile Mill Supplies	Ivoryton	Tools, Dies & Fixtures
Plume & Atwood Mfg Co The (small)	Textile Processors	Wallingford	Greist Mfg Co The
Stanley Pressed Metal	American Dyeing Corporation (rayon, acetate, nylon, dacron, other synthetics)	Wallingford	Tools—Pipe Fitters' Hand
Stampings—Small	Thermometers	Rockville	Capewell Mfg Co The
Acme Shear Co The	Bristol Co The (recording and automatic control)	Wallingford	Hartford
American Metal Products Company Inc	Manning Maxwell & Moore Inc	Waterbury	Toys
Barnes Co The Wallace Div Associated Spring Corp	Thermostats	Stratford	Geo S Scott Mfg Co The
Bristol Spring Manufacturing Co	Pratt & Whitney Div Niles-Bement-Pond Co	West Hartford	Gong Bell Co The
Greist Manufacturing Co The	Transformers	Wallingford	N N Hill Brass Co The
Humason Mfg Co The	Berkshire Transformer Corp The	New Milford	Waterbury Companies Inc
Stationery Specialties	Trucks—Commercial	Winfield	Trams
American Brass Company The	Metropolitan Body Company (International Harvester truck chassis and "Metro" bodies)	Bridgeport	American Steel & Wire Div of U S Steel
Steel	Trucks—Industrial	Winfield	New Haven
Stanley Works The (cold rolled strip)	George P Clark Co	Windsor Locks	Trucks—Lift
New Britain	Excelsior Hardware Co The	Stamford	Excelsior Hardware Co The
Steel Castings	George P Clark Co	Windsor Locks	George P Clark Co
Farrel-Birmingham Company Inc	Textile Machinery	Hartford	Excelsior Hardware Co The (lift)
Hartford Electric Steel Co The (carbon and alloy steel)	Merrow Machine Co The	Hartford	Stamford
540 Flatbush Ave	2814 Laurel St	Hartford	Tube Bending
Malieable Iron Fittings Co	Textile Mill Supplies	Ivoryton	Donahue Mfg Co Inc
Nutmeg Crucible Steel Co	Textile Processors	Wallingford	Watertown
Steel—Cold Rolled Spring	American Dyeing Corporation (rayon, acetate, nylon, dacron, other synthetics)	Rockville	Tube Clips
Barnes Co The Wallace Div Associated Spring Corp	Thermometers	Derby	H C Cook Co The (for collapsible tubes)
Steel—Cold Rolled Stainless	Bristol Co The (recording and automatic control)	Waterbury	32 Beaver St
Wallingford Steel Company	Manning Maxwell & Moore Inc	Stratford	Weimann Bros Mfg Co The (for collapsible tubes)
Steel—Cold Rolled Strip and Sheets	Thermostats	Waterbury	Scovill Mfg Co ("Uniflare")
American Steel & Wire Div of U S Steel	Pratt & Whitney Thermostat Company Inc (automatic)	Bridgeport	Waterbury
Detroit Steel Corporation			Tubers
Wallingford Steel Company			Standard Machinery Co The (tubers for both rubber and plastic industries)
Steel Goods			(Advt.)
Merriam Mfg Co (sheets products to order)			
Durham			
Steel Rolling Rules			
Waterbury Lock & Specialty Co The			
Milford			
Steel Strapping			
Stanley Works The			
New Britain			
Stereotypes			
New Haven Electrotypes Div			
Corp			
New Haven			
Electrographic			
New Haven			

IT'S MADE IN CONNECTICUT

Tubes—Collapsible Metal

Sheffield Tube Corp The New London

Tubing

American Brass Co The (brass and copper) Waterbury

Bridgeport Brass Company (brass and copper) Bridgeport

G & O Manufacturing Co (finned) New Haven

Scoville Manufacturing Company (Brass and Copper) Waterbury 91

Tubing—Flexible Metallic

American Brass Co Metal Hose Waterbury

Tubing—Heat Exchanger

American Brass Company The Waterbury

Scoville Manufacturing Company Waterbury 91

Tumbling Equipment & Supplies

Tumbling Sales & Service Company Greenwich

Tumbling Service

Tumbling Sales & Service Company, Esbec Meriden

Typewriters

Royal Typewriter Co Inc Hartford

Underwood Corporation Hartford

Typewriters—Portable

Royal Typewriter Company Inc Hartford

Underwood Corporation Hartford

Typewriter Ribbons & Supplies

Royal Typewriter Company Inc Hartford

Underwood Corporation Hartford

Hartford and Bridgeport

Underclearer Rolls

Sonoco Products Co (Climax-Lowell Div) Mystic

Vacuum Bottles and Containers

American Thermos Bottle Co Norwich

Vacuum Cleaners

Electrolux Corporation Old Greenwich

Spencer Turbine Co The Hartford

Valves

Norwalk Valve Company (sensitive check valves) South Norwalk

Valve Discs

Colt's Manufacturing Company Hartford

Valve—Automobile Tire

Bridgeport Brass Company Bridgeport

Valves—Radiator Air

Bridgeport Brass Company Bridgeport

Valves—Relief & Control

Beaton & Caldwell Mfg Co New Britain

Valves—Safety & Relief

Manning Maxwell & Moore Inc Stratford

Vanity Boxes

Bridgeport Metal Goods Mfg Co Bridgeport

Plume & Atwood Manufacturing Co Waterbury

Varnishes

Staminite Corp The New Haven

Vegetable Peelers

Colt's Manufacturing Company Hartford

Velvets

American Velvet Co (owned and operated by A Wimpfheimer & Bro Inc) Stonington

Leiss Velvet Mfg Co Inc The Wilimantic

Velvet Textile Corporation The (Velveteen) West Haven

Venetian Blinds

Findell Manufacturing Company Manchester

Jennings Company The S Barry New Haven

New England Shade & Blind Co Inc Durham

Venetian Blind Tape

Russell Manufacturing Company The (woven cotton and woven plastic) Middletown

Ventilating Systems

Colonial Blower Company Plainville

Vertical Shapers

Pratt & Whitney Div Niles-Bement-Pond Co West Hartford

Vibrators—Pneumatic

Bradford Co The (industrial) New Haven

Vises

Charles Parker Co The Meriden

Fenn Manufacturing Company The (Quick-Action Vises) Newington

Vanderman Manufacturing Co The (Combination Bench Pipe) Willimantic

Washers

American Felt Co (felt) Glenville

Auburn Manufacturing Company The (all materials) Middletown

Blake & Johnson The (brass, copper & non-ferrous) Waterbury

Washers (Continued)

Clark Brothers Bolt Co Milldale

Plume & Atwood Mfg Co The (brass & copper) Waterbury

I H Rosenbeck Inc Torrington

Saling Manufacturing Company (made to order) Unionville

Washers—Felt

Chas W House & Sons Inc (Mills & Cutting Plant) Unionville

Washing Machines—Electric

General Electric Company Bridgeport

Watches

E Ingraham Co The Bristol

United States Time Corporation The Waterbury

Water Heaters

Whitlock Manufacturing Co The (instantaneous & storage) Hartford

Water Heaters—Electric

Bauer & Company Inc Hartford

Water Heaters—Gas or Kerosene

Holyoke Heater Corp of Conn Inc Hartford

Waterproof Dressings for Leather

Viscol Company The Stamford

Waxes

Harrison Company The A S (and other protective coatings) South Norwalk

Waxes—Floor

Fuller Brush Co The Hartford

Wedges

Saling Manufacturing Company (hammer & axe) Unionville

Welding

Farrel-Birmingham Company Inc Ansonia

G E Wheeler Company (Fabrication of Steel & Non-Ferrous Metals) New Haven

Industrial Welding Company (Equipment Manufacturers—Steel Fabricators) Hartford

Porupine Company The Bridgeport

Welding—Lead

Storts Welding Company (anks and fabrication) Meriden

Welding Rods

American Brass Company The Waterbury

Bristol Brass Co The (brass & bronze) Bristol

Wheels—Industrial

George P Clark Co Windsor Locks

Wicks

Auburn Manufacturing Company The (felt, asbestos) Middletown

Holyoke Heater Corp of Conn Inc Hartford

Window & Door Guards

Hartford Wire Works Co The Hartford

Smith Co The John P New Haven

Window Shades

New England Shade & Blind Co Inc Durham

Wiping Cloths

Federal Textile Corporation New Haven

Wire

American Brass Company The Waterbury

American Steel & Wire Div of U S Steel New Haven

Atlantic Wire Co The (steel) New Haven

Bartlett Hair Spring Wire Co The (hair spring) North Haven

Bridgeport Brass Company (brass and silicon bronze) Bridgeport

Bristol Brass Corp The (brass & bronze) Bristol

Driscoll Wire Co The (steel) Shelton

Hudson Wire Co Winsted Div (insulated & enameled magnet) Winsted

Platt Bros & Co The (zinc wire) Waterbury

P O Box 1030 Plumb & Atwood Mfg Co The (brass, bronze, nickel silver) Thomaston

Scoville Manufacturing Company (Brass, Bronze and Nickel Silver) Waterbury 91

Wire and Cable

General Electric Company (for residential, commercial and industrial applications) Bridgeport

Wire Arches & Trellises

Hartford Wire Works Co The Hartford

John P Smith Co The New Haven

Wire Baskets

Wiretex Mfg Co Inc (Industrial, for acid, heat, treating and degreasing) Bridgeport

Wire Cable

Bevin-Wilcox Line Co The (braided) East Hampton

Wire Cloth

Hartford Wire Works Co The C O Jeliff Mfg Co The (all metal, all meshes) Hart

Pequot Wire Cloth Co Inc (Alloy) Southport

Rolock Wire Co Inc (Alloy) Fairfield

Smith Co The John P New Haven

Wire Drawing Dies

Waterbury Wire Die Co The Waterbury

Wire Dipping Baskets

Hartford Wire Works Co The John P Smith Co The 423-33 Chapel St Hart

Wire Formings

Autoyre Co The Oakville

G E Prentice Mfg Co The Kensington

Master Engineering Company West Cheshire

North & Judd Manufacturing Co New Britain

Turner & Seymour Manufacturing Co The Torrington

Verplex Company The Essex

Wire Forms

Barnes Co The Wallace Div Associated Spring Corp

Bristol Spring Manufacturing Co Plainville

Colonial Spring Corporation The Hartford

Connecticut Spring Corporation The Hartford

Foursons Manufacturing Co Bristol

Humason Mfg Co The Forestville

New England Spring Mfg Co Unionville

Templeman Co D R Plainville

Wire Goods

American Buckle Co The (overall trimmings) West Haven

Patent Button Co The Waterbury

Scoville Manufacturing Company (To Order) Waterbury 91

Wire Partitions

Hartford Wire Works Co The Hartford

John P Smith Co The 423-33 Chapel St New Haven

Wire Products

Clairglow Mfg Company Portland

Humason Mfg Co The Forestville

Plume & Atwood Mfg Co The (to order) Waterbury

Wire Reels

A H Nilson Mach Co The Bridgeport

Wire Rings

American Buckle Co The (pan handles and tinsmiths' trimmings) West Haven

Humason Mfg Co The Forestville

Templeman Co D R Plainville

Wire Rope and Strand

American Steel & Wire Div of U S Steel New Haven

Wire Shapes

Bridgeport Chain & Mfg Co Bridgeport

Wire—Specialties

Andrew B Hendryx Co The New Haven

Wire and Cable

Rockbestos Products Corporation (all asbestos, mining, shipboard and appliance applications) New Haven

Wooden Boxes

Wallingford Planing Mill Co Inc Yalesville

Wood Handles

Salisbury Cutlery Handle Co The (for cutlery & small tools) Salisbury

Wood Scrapers

Fletcher-Terry Co The Forestville

Woodwork

C H Dresser & Sons Inc (Mfg all kinds of woodwork) Hartford

Hartford Builders Finish Co Hartford

Woven Felts—Wool

Char W House & Sons Inc (Mills & Cutting Plant) Unionville

Yarns

Hartford Spinning Incorporated (Woolen, knitting and weaving yarns) Unionville

Aldon Spinning Mills Corporation The (fine-woolen and specialty) Talcottville

Ensign-Bickford Co The (Jute-carpet) Simsbury

Zinc

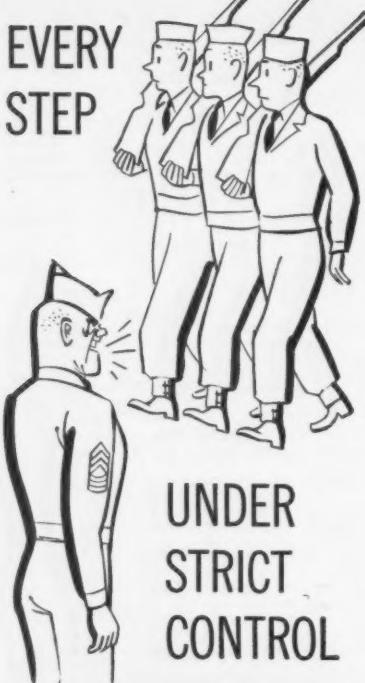
Platt Bros & Co The (ribbon, strip and wire) Waterbury

P O Box 1030

Zinc Castings

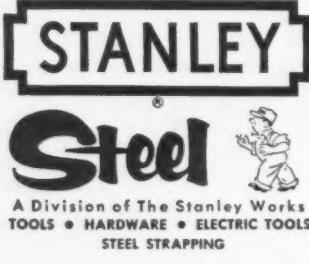
Newton-New Haven Co Inc 688 Third Ave

West Haven (Advt.)



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The Curse of Subsidies Some Remedies

(Continued from page 20)

house you may expect to move. And so all dependents on government power, loans, health, houses, fruits of fields and forest must do the will of government and not of God. Government pretends to be a substitute for God. It is certain to be rejected.

Congress Needs Help of People

I dare say a majority of Congressmen are leaving Washington this August 1954 with a greater political, economic, and moral sense of frustration, than at any time in 22 years. It is because we have tried and failed to resolve questions of right and wrong on a constitutional basis in our domestic affairs. The contentions of groupism and the outright disorder and lawlessness of some of the more powerful groups have wearied our souls. What is worse, we have no defense against the demands of these groups in the future. Congress has found the constitutional limitations on its power to satisfy these groups gone and the floodgates wide open.

The people themselves must reassert those limitations on Congress and renounce for themselves the corruption offered for their votes. The people must determine for themselves the kind of government they want. Congress cannot do it for them. Mr. Speaker, I would like to know what the people think of Mr. Metcalf's proposal. And I would like to hear, as I am sure every Congressman would, how to get the Government out of all of its unconstitutional business.

The Development of the American Cotton Textile Industry

(Continued from page 18)

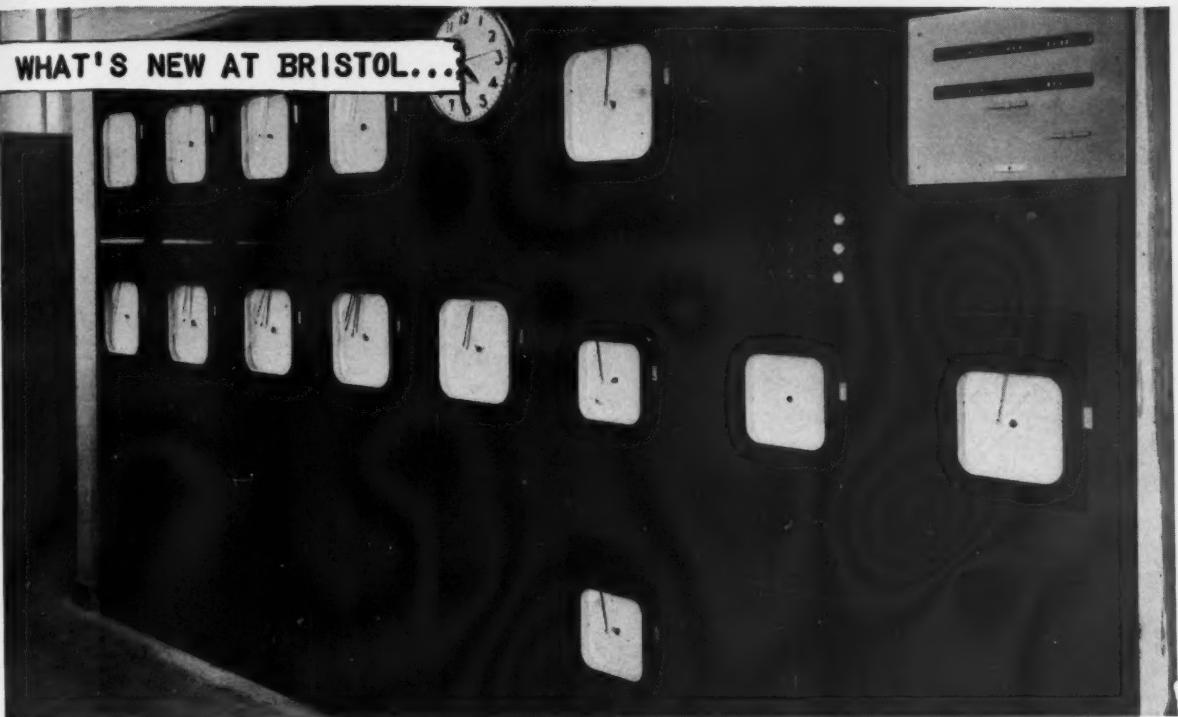
merger movement just prior to these declines, it is worthwhile pondering the effects of the changes in market structure on the behavior of textile prices, output, and profits during periods of textile recession.

It will be noted in this brief sketch of the history of the textile industry that such important topics as the geographic location and relocation of the

industry, the development of integration, changes in market structure and in competitive behavior, have been treated sparingly, if at all. This is because it was felt that it would be inappropriate to discuss these important topics in cursory fashion.

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Wyatt, Inc.	Inside Front Cover



IN SAN FRANCISCO. Control panel at the new Point Richmond Holder Station of the Pacific Gas and Electric Co. The Bristol Metameter Receivers on this panel record readings of flow and pressure at focal points of load in the natural gas distribution and transmission systems for San Francisco Bay section.

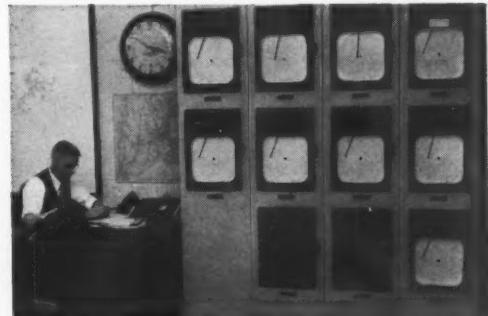
This installation is part of an elaborate system of Metameter Telemetering and remote control, involving distances up to 50 miles, used on this company's far flung network of pipe lines throughout northern and central California. This company is using Metameters that have been in operation since 1935.

From California to New England *... it's Bristol all the way*

For over 20 years, the Bristol Metameter Telemeter has been recognized throughout the nation as the finest and most reliable instrument of its kind.

That's why today the Metameter is the most widely used instrument in the telemetering field.

From coast to coast, the Metameter has been serving the needs of oil and gas men everywhere. Find out how the Metameter can solve your measurement, recording or control problem, too. Write today for our free 40-page Bulletin M1710. The Bristol Company, 163 Bristol Road, Waterbury, Conn.



IN SPRINGFIELD, MASS. Dispatching Office of Northeastern Gas Transmission Co., in Springfield, Mass. Pressure readings from six New England points are received by the two Time-Multiplex Receivers shown on the bottom of the panel and individually recorded by the 9 Metameter Receivers. With the new Bristol Multiplexing equipment, up to 15 readings can be transmitted over a single circuit. Thus, tremendous savings are made in circuit costs.

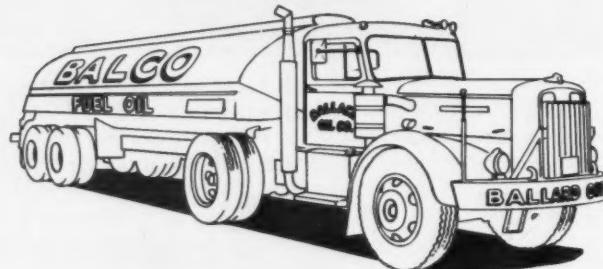
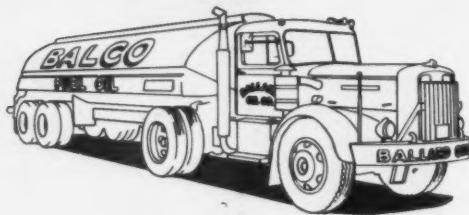
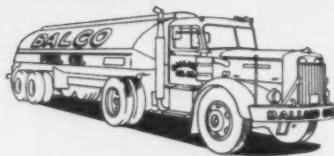
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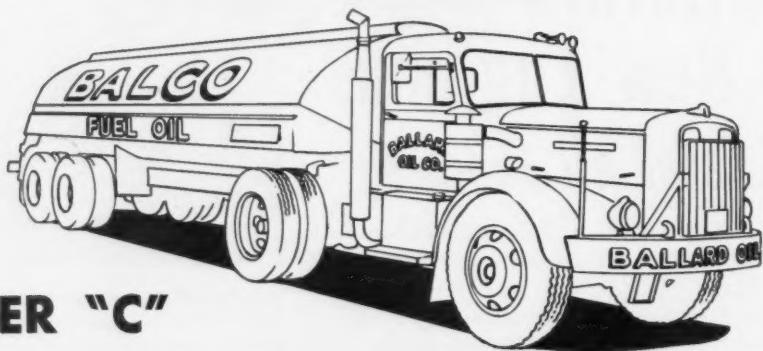
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